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(👤) Personal Portfolio   ✉ karngupta21@gmail.com   📞 +61-413-312-349   (⑂) Leetcode

Education

Bachelor of Computer Science | The University of Adelaide; **GPA: 6.3/7.0**

Work Experience

Full Stack Software Developer | Rapid Global Pty Ltd; Adelaide   Jan 2023 – Present
- Overhauling three flagship products end-to-end from scratch called MyRapid, Trainee Portal and Rapid Incident Reporting which are crucial to the organization's revenue stream using **Agile methodologies for efficient project management.**
- **Comprehensively developing on React.js** to craft seamless user experiences from Figma designs & **extensively** constructing **robust RESTful APIs with ASP.NET Core**, adhering rigorously to **SOLID principles**, ensuring scalability, and maintainability.
- Implementing **Jest unit testing** for frontend components, improving **code reliability by 25%** and facilitating continuous integration; **performing code reviews** and delivering constructive feedback to foster a culture of continuous learning.
- **Collaborating closely with cross-functional teams** to elicit requirements and proposing innovative ideas and insights in product roadmap planning to drive product evolution and differentiation that led to a **20% increase in user interaction.**
- Drove a pivotal role in the project which resulted in achieving a **33% increase in revenue and enhancement of KPIs.**
- **Technologies used: React JS, Redux, JavaScript, Jest, Bootstrap, SCSS, ASP.NET Core, C# and MS SQL Server.**

Full Stack Software Developer | Lumient; Adelaide   Mar 2022 – Dec 2022
- Spearheaded the development and managed **a project of $1.2 million in value** of a cutting-edge, web-based fully automated Wool Management System for Elders, a prominent Australian agriculture company, enhancing operational efficiency.
- Deployed **Vue.js extensively** to translate **Figma designs** into visually appealing pages resulting in a 20% user engagement.
- Engineered powerful RESTful APIs using ASP.NET Core adhering to SOLID principles **improving system scalability by 30%.**
- Executed **Agile Scrum** methodologies, fostering transparency, and conducted code reviews enhancing **code quality by 25%.**
- Supporting in project success its potential as a lucrative software solution for Elders, **yielding 13% decrease in labour cost.**
- **Technologies used: Vue JS, TypeScript, Bootstrap, Kotlin, ASP.NET Core Web API, C# and MS SQL Server.**

Full Stack Software Developer | ACURA Group Australia Pty Ltd; Adelaide   Dec 2021 – Feb 2022
- Led the revamping of **Highgate Air's large-scale eCommerce website**, overseeing a pivotal renovation aimed at delivering a highly performant customer experience and driving **significant revenue growth by 10%** for the business.
- **Widely employed React.js to transform Figma designs** into eye-catching landing pages, and enhanced user engagement.
- Architected **strong RESTful APIs using Node.js, following DRY and KISS principles** which optimized performance by 30%.
- Built mobile application from the ground up, leveraging React Native increasing mobile **customer involvement by 20%.**
- Aligning with business objectives resulted in a remarkable **13% additional revenue** and notable improvements in sales.
- **Technologies used: React JS, React-Native, TypeScript, Magento, Bootstrap, PHP, and SQL Server.**

Full Stack Software Developer Intern | eBottli; Adelaide   Sep 2021 – Nov 2021
- Directed the advancement of a **ground-breaking eCommerce** website for official Winegrapes Australia, a platform for selling premium wines made from winegrapes, heralding a significant milestone in their business strategy to **secure funding.**
- Harnessed Angular.js and Node.js incorporated JWT Authentication to secure interactions between the frontend and backend
- **Technologies used: Angular JS, Google Maps and JWT Authentication, Bootstrap, Node, Express and Firebase.**

Back-End Software Developer Intern | Colakin; Melbourne   Jun 2021 – Aug 2021
- Executed strategic solutions through the development of robust and maintainable **microservices RESTful APIs** to address sizing challenges within the clothing industry to enhance the overall customer experience to **increase customer retention**.
- Took ownership of the platform conducting a comprehensive analysis to pioneer efficient solution in Spring Boot and Node.js
- **Technologies used: Vue JS, Java Spring Boot, Node JS, Bootstrap, Python, Mongo DB, PostgreSQL and Graph QL.**

Front-End Software Developer Intern | Accede Holdings Pty Ltd; Adelaide   Mar 2021 – May 2021
- Orchestrated the designs into innovative front-end UI for an automated kitchen management application for **Royal Adelaide Hospital**, guaranteeing optimal functionality across various devices and thereby maximizing accessibility for the end-users.
- Actively contributed to **accessibility features** and testing to identify potential UI inconsistencies or performance bottlenecks.
- **Technologies used: JavaScript, Twig, PHP, Bootstrap, MS Access, MS SQL Server.**

Technical Skills

Programming Languages: C++, Java, PHP, JavaScript (ES6), TypeScript, C#, Python, Kotlin, CSS and SQL.

Web Technologies: React, Redux, Next, Angular, Vue, Jest, Spring Boot, ASP.NET Core, Node JS, Bootstrap (SCSS), Graph QL.

Databases: MySQL, MS SQL Server, PostgreSQL, MongoDB and Google Firebase.

Others: Git, Team Foundation, Jira, Object-oriented programming, Restful APIs, Data Structures & Algorithms and Agile / Scrum

Leadership: Emotional intelligence**,** Effective communication, Collaborative behaviour, Attention to detail, Empathy, Mentorship.

Personal Projects (Click on each 🔗 to see the LIVE DEMO)

Shop.Co, E-commerce (React Js, Tailwind, Node, Express, JWT Authentication, Payment Gateway, MongoDB) 🔗 May 2024
- Developed an end-to-end full-stack e-commerce platform from scratch, widely applied React and Tailwind for intuitive UI/UX design.
- Heavily utilized Node.js and Express.js to construct a resilient RESTful API, implementing JWT authentication for enhanced security.
- Integrated Razorpay payment gateway to enable seamless real payments, ensuring a smooth transaction experience.

AusCycling SA, RacePower Plan Prediction (React JS, Chakra UI, Node, Express, Python, Firebase) 🔗 🔗 Dec 2023
- Predict and coordinate the race performance of an athlete which is the power of athlete needs to achieve a desired time.
- Users will be able to establish an optimal race plan given some set of inputs regarding an athlete's physiological profile.
- Produce real-world impact by empowering elite coaches & cyclists to perform at their maximum potential on the world stage.

Friends Colab Hub (Angular Js, TypeScript, ASP.NET Core Web API, C#, JWT Authentication, CRUD, MS SQL) 🔗 Apr 2024
- Directed a full-stack web-based project management web application where friends can collaborate on developing projects.
- Followed the Agile & Scrum methodologies plus, widely used Angular.Js for an eye-catching Web-UI for a seamless experience.
- Added CRUD Operation for each section and JWT Authentication for privacy and security reasons for preventing data breaches.

Medi Link, E-Commerce (React Js, ASP.NET Core WEB API, Entity Framework, Restful API, Postman, MS SQL) 🔗 Feb 2024
- Designed a modern graphical interface for enhanced user experience in React.Js for an online e-commerce Medicine shopping.
- Established a comprehensive RESTful API following SOLID Principles for efficient information retrieval to cater to user requirements.
- Rigorous testing of the API using Postman for CRUD operations and database script to make it an OWASP valid application.

School-Net (ASP.NET Core MVC, Razor Pages, JavaScript, Bootstrap, Entity Framework, C#, Google Firebase) 🔗 Jan 2024
- Composed interactive, responsive and dynamic web pages using JavaScript and Bootstrap to ensure compatibility on various devices
- Leveraged ASP.NET Core MVC to build robust and scalable backend services and Razor Pages for efficient server-side rendering.
- Integrated Firebase for real-time database functionalities, user authentication and authorization features, ensuring secure access.

COVID-19, Contact Tracing Web Application (Vue JS, Custom CSS, AJAX, Node, Express, MySQL) 🔗 Jan 2023
- Allows users to check-in when they visit businesses/public places using GPS Location, and even shows hotspots/areas to avoid.
- Alerts Health Officials/Admins if the user has come into contact with a hotspot, then Admins create and oversaw hotspot venues.
- Venue Managers/Owners are able to handle their venue information and view the check-in history for their venue.

See Adelaide, Tourism (React Native, Redux, Custom CSS, Google Maps API, Firebase) 🔗 Nov 2023
- Fabricated a Tourism App for International Students that promotes various attractions throughout the city of Adelaide.
- The App provides brief synopsis for a variety of places in Adelaide on One current Location.
- Collaborating with entrepreneur team to get the business idea which will result in making the app more user-friendly and reliable.

EasyTube, Simplified YouTube (React JS, Custom CSS, Node, Express, MongoDB, Google Authentication) 🔗 Feb 2023
- Constructed a video uploading and streaming platform using React JS and SCSS for a responsive and interactive user interface.
- Built robust RESTful API with Node and Express for server-side logic and integrated Cloudinary to handle video uploads.
- Designed and implemented efficient schemas for user data, video uploads, comments, and likes in MongoDB (NoSQL).

Adelaide Car Rental (React JS, JavaScript, Styled Components, Bootstrap, SCSS, Figma) 🔗 Aug 2023
- A car rental website functions as a digital platform enabling individuals and businesses to hire vehicles for their needs.
- It offers a user-friendly interface to browse, contrast, and book from a diverse range of cars, encompassing various, models.
- Heavily utilised, React Js, Hooks & different style components and generated my own Figma design and then transformed it.

Gymate, Fit Planet (React Js, JavaScript, Tailwind, SCSS, Figma) 🔗 Mar 2024
- Gymate provides a space for people to improve their physical fitness and health through regular exercise and physical activity.
- Extensively utilizing React Js and Tailwind CSS for efficiently styling UI, ensuring a visually appealing and user-friendly experience.
- Created a customized Figma Design to meticulously plan and visualize the website's layout, ensuring seamless navigation.

Cab Service (HTML, CSS, Bootstrap, JavaScript, PHP, MySQL) 🔗 Jun 2022
- Programmed a real-time Cab Service online system through which customers can view available cabs; register and book the cabs.
- Platform also offers an admin interface where the taxi company can lead the content, access bookings and customer information.
- This project intends to introduce more user-friendly in various activities such as record updating, maintenance, and searching.

Certifications (Click on each 🔗 to see the Official Certificate)

- **React - The Complete Guide 2024 (incl. Next.js, Redux)** by Maximilian Schwarzmüller **{68.5 hours}**. 🔗
- **Build ASP.NET Core Web API - Scratch To Finish (.NET8 API)** by Sameer Saini **{18 hours}**. 🔗
- **NodeJS - The Complete Guide (MVC, REST APIs, GraphQL, Deno)** by Maximilian Schwarzmüller **{40.5 hours}**. 🔗
- **The complete 2024 Web Development Bootcamp (React, JavaScript, Node, SQL, Git)** by Dr. Angela Yu **{61.5 hours}**. 🔗

Achievements

- Outshined **4 Software Engineering Internships and 2 Software Developer Part-Time Jobs** during my bachelor's degree.
- Accomplished solving **500+ Data Structures and Algorithm Questions on LeetCode** with an Annual Badge of 300+ Days.
- Scored a remarkable **98.6% in the TestDome Online Assessment** during Top Tech companies hiring procedures.
- Hired as **Youngest Student Researcher (Research Assistant)** in Parson's Puzzle underlead the lead of Dr Cheryl Pope.
- Offered a **Fully Funded PhD** in Computer Vision at The Australian Institute of Machine Learning.
- Secured **Rank 1** in the entire Undergraduate Kaggle Competition for Computer Vision among all 237 participants.
- Accomplished a **Rank of 10** in Jane Street's Virtual ETC among 162 groups in Australia.
- Scored a **Rank of 36** in The ANZAC round for Competitive Programming among 236 teams in Australia.
- Achieved a **Rank of 41** in (ICPC) Regional 2021 among more than 500+ groups in Australia.