

Vijayagiridharan Subramanian

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EDUCATION

- Masters in Computer Science**, Purdue UniversityAug 2023 – May 2025
- Relevant Coursework: Web Development, Cryptography and Network Security, Algorithm Design Analysis and Implementation, Database Design, Software Project Management, Software Engineering, Human-Computer Interaction
- Bachelors in Electronics and Communication**, Sri Sairam Engineering CollegeAug 2018 – May 2022
- Relevant Coursework: Programming in Python and Problem Solving, Cloud Computing, Data Structures in C, Machine Learning Techniques

EXPERIENCE

- Software Engineer Intern | Full Stack Developer**, Eva Eco Systems Inc – Houston, TXFeb 2025 – Present
- Engineered the frontend of Park My Ride, a parking booking platform, using React Native, increasing UI responsiveness by 30%, leading to a 20% rise in user engagement. Integrated over 15+ React Native screens with Django-based APIs and PostgreSQL, improving data retrieval speed by 40%.
 - Accelerated API response times by 40%, enhancing backend performance and scalability on AWS LightSail. Designed and implemented a microservices-based backend using Docker and Kubernetes, improving system scalability by 60%.
 - Facilitated bi-weekly Scrum ceremonies for a 9-member team, boosting sprint velocity by 20%
- Software Engineer | MEAN Stack**, Cognizant Technology Solutions – ChennaiNov 2022 – Mar 2023
- Built full-stack web applications using MongoDB, Express.js, Angular (v12+), and Node.js, implementing JWT authentication, OAuth 2.0, and Stripe API for secure transactions.
 - Refined RESTful API designs, improving data retrieval efficiency by 35%, and streamlined application performance, reducing page load time by 50% through lazy loading and caching.
 - Integrated CI/CD pipelines to automate 90% of deployments, managed Agile workflows using Git and Jira, and ensured seamless collaboration and delivery within Agile frameworks.

SKILLS

- Programming:** Java, Python, JavaScript, TypeScript, C, HTML5, CSS3, SQL
- Frontend:** React.js, React Native, Angular, Bootstrap
- Backend:** Node.js, Express.js, Spring Boot, Django, Flask
- Databases:** MongoDB, MySQL, PostgreSQL
- Cloud & DevOps:** AWS (LightSail, Lambda, S3, EC2), Docker, Kubernetes, CI/CD pipelines
- Tools:** Git, VS Code, Postman, Jira, Maven, Unix/Linux
- Testing:** Jest, Mocha, Cypress, Selenium, Chai
- Other:** RESTful APIs, WebSocket, OAuth2, JWT, Microservices

PROJECTS

- Don's Pay – Mobile Payment Application**Sep 2024 – Dec 2024
- As a team of 3 members, we architected a secure campus payment system using Don Dollars and Meal Swipes, integrating a Spring Boot backend with MySQL.
 - Implemented QR code-based payments and accelerated real-time balance updates using AsyncStorage.
 - Structured robust database schemas and engineered 8+ RESTful APIs for seamless transaction processing, reducing transaction delays by 18%.
 - Technologies:** React Native, Spring Boot, MySQL, Render.
- Food Truck Application – Backend Development**Jan 2024 – May 2024
- Established secure user authentication and built CRUD APIs resulting in a 40% reduction in time required to update menu details using Flask and Flask-SQLAlchemy.
 - Incorporated raw SQL queries for optimized database performance and executed bcrypt-based password hashing, enhancing the query response time by 25%.
 - Technologies:** Python, Flask, Flask-SQLAlchemy, MySQL.
- Portfolio Builder – Online Portfolio Generator**Sep 2023 – Dec 2023
- Crafted a tool to convert resumes into interactive portfolios with dynamic webpages, engaging 80+ users, and programmed a real-time preview feature using React.js and Redux, enhancing interactivity by 10%.
 - Implemented JWT-based authentication and executed end-to-end testing using Cypress and Jest.
 - Technologies:** React.js, Redux, Bootstrap, JWT, Axios, Jest, Cypress, Render.

LEADERSHIP

- Coordinator - Skill Development Club**June 2020 – Mar 2022
- Oversaw coordination and logistics for distinguished guest visits throughout undergraduate studies.
- Volunteer Leader - Eco Club and Swachh Bharat Club**Aug 2019 – Nov 2021
- Led voluntary initiatives including blood donation drives, tree planting campaigns, and marathon events.