

Vijayagiridharan Subramanian

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Education

Purdue University Fort Wayne, Fort Wayne, Indiana Aug 2023 – May 2025
Master of Science in Computer Science

- **Courses:** Web Development, Cryptography and Network Security, Algorithm Design Analysis and Implementation, Database Design, Software Project Management, Software Engineering, Human-Computer Interaction, Cyberwarfare

Sri Sairam Engineering College, Chennai Aug 2018 – May 2022
Bachelor of Engineering in Electronics and Communication Engineering

- **Courses:** Problem Solving and Python Programming, Cloud Computing, Data Structures in C, Machine Learning Techniques

Experience

MEAN Web Developer Intern, Cognizant Technology Solutions – Remote Nov 2022 – Mar 2023

- Developed and maintained scalable web applications using MongoDB, AngularJS, ExpressJS, and NodeJS.
- Debugged complex codebases and optimized web application performance.
- Enhanced team productivity through seamless cross-functional communication.

Skills

Programming Languages: Java, Python, JavaScript, TypeScript, C, HTML5, CSS3, SQL

Web Technologies: React, Node.js, Express, MongoDB, Bootstrap, Spring Boot, Python Flask, MySQL, React Native

Tools and Platforms: Ubuntu, Unix/Linux, VS Code, Git, Jenkins, Maven, Eclipse, Postman, Gradle, Oracle VM

Projects

Don's Pay – Mobile Payment Application Sep 2024 – Dec 2024

- Designed a secure campus payment app using Don Dollars and Meal Swipes with a MySQL-integrated Spring Boot backend.
- Developed QR code-based payment functionality and optimized real-time balance updates using AsyncStorage.
- Created robust database schemas and implemented RESTful APIs for transaction management.
- **Technologies:** React Native, Spring Boot, MySQL, Render.

Food Truck Application – Backend Development Jan 2024 – May 2024

- Developed secure user authentication and CRUD APIs for managing menu items using Flask and Flask-SQLAlchemy.
- Implemented raw SQL queries for efficient database interactions and utilized bcrypt for secure password hashing.
- **Technologies:** Python, Flask, Flask-SQLAlchemy, MySQL.

Portfolio Builder – Online Portfolio Generator Sep 2023 – Dec 2023

- Engineered a tool to convert resumes into interactive online portfolios with dynamic webpage features.
- Developed a real-time portfolio preview feature using React.js and Redux to enhance user interactivity.
- Implemented secure authentication with JWT and end-to-end testing with Cypress to ensure reliability.
- **Technologies:** React.js, Redux, Bootstrap, JSON Web Tokens (JWT), Axios, Cypress, Render.

Leadership and Activities

- Led voluntary initiatives, including blood donation drives, tree planting campaigns, and marathon events.
- Coordinated logistics for distinguished guest visits during undergraduate studies.