Pranav Kodakara

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Education

University of Michigan Engineering, Ann Arbor, MI

May 2025 (expected)

BSE — Computer Science with Minor in Mathematics, GPA 3.86/4.0

• Coursework: Data Structures and Algorithms, Database Management, Cybersecurity, Web Systems, Artificial Intelligence, Computer Organization, Computer Science Theory, Discrete Math, Linear Algebra, Probability

Trumbull High School, Trumbull, CT, Class Valedictorian

Jun 2022

Technical Skills

Languages/Frameworks: Java, Spring Boot, C++, C, Python, Flask, Swift, HTML/CSS, JavaScript, React, SQL, R **Tools:** Git, Splunk, Docker, Postman, Jenkins, Pivotal Cloud Foundry, Figma, VS Code, IntelliJ

Experience

Synchrony Financial, Stamford, CT

May 2024 - Present

Software Engineer Intern, API Engineering

- Enhancing the new bank account opening platform to simplify, accelerate, and reduce the cost of identity-related procedures, such as authentication, authorization, and fraud prevention, leveraging Spring Boot and Gradle to ensure seamless integration and optimal performance.
- Developing an API endpoint to consolidate and display transfer transaction limits for customer groups, facilitating error prevention by ensuring users are informed of applicable limits.
- Supporting the User Acceptance Testing (UAT) environment by monitoring and troubleshooting errors through Splunk logs, ensuring smooth testing processes.

Eversource Energy, Newtown, CT

Jun 2023 - Aug 2023

Distribution Engineer Intern

- Improved the electrical distribution system across western Connecticut, expanding infrastructure for greater reliability and responsiveness through routine and special projects.
- Delivered 100+ recommendations on equipment replacements and repairs to maximize return on assets after reviewing interruption reports and analyzing circuit deficiencies (e.g. voltages, overloads, etc).
- Devised a comprehensive \$2.3 million plan for a sectionalizing and reconductoring project, strategically targeting circuit reliability in a hospital vicinity to bolster system performance and proactively prevent future outages.

Projects

Client-Side Dynamic Instagram Clone, JavaScript, React, Python, Flask, SQL, HTML/CSS, AWS

- Engineered an Instagram application replica using Flask to construct a secure and scalable RESTful API, leveraging SQL for a relational database storing user data, posts, comments, and likes with deployment to AWS cloud.
- Integrated user authentication with HTTP basic authentication within the Flask API and built a client-side dynamic React/JS frontend featuring infinite scrolling and real-time post interaction updates.

Forum Post Classifier, C++

- Leveraged machine learning techniques of conditional probability optimization to develop a text classification system, utilizing prior Piazza posts for training to determine the subject of new forum posts.
- Implemented data structures, including binary search trees and maps, optimizing them for efficient storage and element retrieval.

Activities

Tau Epsilon Kappa Professional Technology Organization

Jan 2023 - Present

Vice President of Professional Development, Academic Chair

- Lead the Professional Development committee, managing 15 members to coordinate professional development workshops, guest speakers, philanthropy events, and DEI panels to educate 70+ members.
- Organized and led a hackathon/design jam for 100+ students, overseeing event planning and judging.

Michigan Hackers

Jan 2023 - Present

Machine Learning Team

• Developed a personalized music recommendation project utilizing the Spotify Web API to analyze user-inputted songs, implementing machine learning algorithms to enhance the accuracy of music recommendations.