

Gautham Pandian

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Education

University of California, Davis — Expected Graduation June 2025

Bachelor of Science: Computer Science and Engineering — GPA: 3.76

Profile

- I am a highly motivated programmer currently enrolled in the UC Davis College of Engineering. I am seeking an internship as a full-stack developer working with the MERN Stack. With a strong background in computer science and a proven ability to work collaboratively, I am confident in my ability to deliver scalable solutions and I am committed to staying up-to-date with the latest technologies while furthering my skills in the industry.

Skills

Programming Languages and technologies:

- C/C++, Python, Java, React JS, Node JS, Javascript, GO, Express JS, HTML/CSS, Solidity, SQL, MongoDB

Technical Capabilities:

- REST APIs, Sorting Algorithms, Multifil/File Implementation, JSON file handling, Linux, Heaps, BST, Machine Learning, Blockchain Smart Contracts, Logisim, Shell Scripting, Git

Projects and Experiences

AI Study Plan Creator - 2022

- Developed an AI-driven web application leveraging **ReactJS, NodeJS, and OpenAI's LLM API** to analyze student study patterns and generate optimized study plans. Currently expanding application capabilities utilizing the **MERN Stack**, and turning it into a startup.

Aggieworks, Software Engineer - 2023

- Spearheaded the frontend development for the Club Finder Application of the organization. Singlehandedly designed and built the framework using **React.js, Astro, and Figma**. Soon to have an projected estimate of 9000 student users on the platform.

User-level thread library for Linux - 2023

- Created a user-level thread library for Linux in **C**, which allows for a program to create new threads, schedule the execution of threads in a round-robin fashion, provide an interrupt-based scheduler, and thread synchronization. Also wrote comprehensive test cases to verify functionality and maximize test coverage.

Certifications, Accolades, and Courses

Certifications

- Java Programming: Solving Problems with Software (Duke University)
- Crash Course on Python (Google)
- MIT LaunchX Certification (startup accelerator similar to Y Combinator)

Accolades

- Member of the University Honors Program
- Received the UC Regents Scholarship
- UC Davis College of Engineering Dean's Honor List
- Yale Science & Engineering Award

Courses

- Data Structures, Algorithms, & Programming
- Software Development & Object-Oriented Programming in C++
- Computer Architecture
- Fullstack Web Development with React
- Operating Systems & System Programming