ARAVIND SRINIVASAN
Aspiring Software Engineer & Full-Stack Developer
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Double major in Computer Science and Mathematics from UC Berkeley with a strong foundation in software engineering, full-stack development, and data analytics. Proficient in Python, Java, JavaScript, and frameworks like React and Node.js. Skilled in building scalable, secure web applications, designing user-friendly interfaces, and implementing CI/CD pipelines. Passionate about solving complex challenges and delivering impactful, innovative solutions. Seeking a Software Engineering or Full-Stack Development role to apply technical expertise and analytical skills to real-world problems.

EDUCATION

B.A: Mathematics (May 2024), University of California Berkeley - GPA: 3.71/4
B.A: Computer Science (May 2024), University of California, Berkeley - GPA: 3.71/4

- GPA: 3.71/4.00
- Dean's List and Honors list
- Member, Upsilon Pi Epsilon Honor Society (Invitation-Only Society for Exceptional CS Students)

SKILLS

Languages: Python, Java, Rust, Haskell, C, Go, JavaScript, TypeScript, Bash, RISC-V, LaTeX, HTML, CSS, SQL
Frameworks/ Tools: Tauri, React, Flask, Node.js, Next.js, Django, Tailwind CSS, Storybook, Jest, Selenium, GraphQL
Databases: Postgres, Cassandra, NoSQL, DynamoDB, MongoDB, SQLite
Cloud Computing: AWS, Heroku
Practices/ Environments: Agile, TDD, CI/CD, Git, GitHub Actions, Docker, VS Code, Cursor

PROFESSIONAL EXPERIENCE

Stanford University Math Camp (SUMaC) Admissions Exam Reviewer
Stanford University | Remote | January 2024 - March 2024

- Reviewed and evaluated SUMaC admissions exams with meticulous attention to detail.
- Authored comprehensive summaries for each application, assessing mathematical problem-solving strategies and unique capabilities.
- Contributed to a rigorous evaluation process for one of the most selective mathematics programs.

Academic Intern
UC Berkeley | Berkeley, CA | August 2022 - December 2022

- Assisted in teaching Computational Structures in Data Science, focusing on coding concepts like Trees, Linked Lists, and Recursion.
- Collaborated with teaching staff to deliver interactive coding workshops, enhancing student engagement and retention.
- Provided individual academic support to students, improving their understanding of complex programming topics.

Software Intern
Enerpact | Remote | May 2022 - July 2022

- Migrated a legacy Java codebase to Python, streamlining future updates and maintenance.
- Implemented a linear regression model to predict forecast curves, increasing forecasting accuracy.
- Achieved a 75% boost in efficiency and a 13% increase in client revenue through improved data modeling.

Math Tutor
GoPeer | Remote | January 2022 - March 2022

- Provided personalized tutoring to high school and middle school students, tailoring lessons to their learning needs.
- Increased student scores by an average of 20% within two months, leading to improved academic performance and confidence.

TECHNICAL PROJECTS

- **E-commerce Platform |** Next.js, DynamoDB, AWS Amplify, Tailwind, Typescript, AWS SDK, AWS Cognito, Stripe
  Developed a responsive E-commerce platform using Next.js and AWS, allowing users to login, browse products, add items to their cart and complete secure purchases. Utilized DynamoDB for scalable product storage and Cognito for secure user authentication.
- **Password Manager |** Tauri, React and Rust
  Built a secure cross-compatible password management desktop application that enables users to store, update, and retrieve their passwords. Utilizes cryptographic protocols like Argon2 and AES to ensure confidentiality and integrity of the data.
- **Chip-8 Emulator |** Rust
  Developed a fully functional Chip-8 emulator supporting classic games, showcasing expertise in low-level systems programming and memory management. The project enhanced my proficiency in low-level systems programming.
- **Jotdown Markup Language |** Haskell
  Designed and implemented a lightweight markup language that transforms custom syntax into HTML, enabling streamlined task documentation and enhancing skills in functional programming and language design. This project highlights my skills in functional programming and language design.
- **RunBy |** Flask, GPT-4 API, React.JS, Tailwind CSS, HTML, Material UI
  Built an AI-powered tool that provides personalized user suggestions through chatbot interactions with multiple personalities.
- **Task Management and Productivity Web Application** | C#, .NET, React, Tailwind CSS, GraphQL, Go, Python, Docker, AWS
  Built a comprehensive task management and productivity app that helps users to prioritize tasks and improve efficiency using techniques like the Pomodoro Method, Kanban boards, and the Eisenhower Matrix. This project highlights my proficiency in building user-centric applications and my ability to learn and utilize new languages and tools.
- **Game Developer – 2D Platformer, 3D** | GDScript, Godot Shaders, GIMP, Inkscape, Blender
  Designed and developed a **2D platformer** featuring three unique levels, each with distinct maps and objectives. Additionally, built a **3D game world** with a playable character, enemies, weapons, and interactive torches using custom shaders. Independently learned and applied game development principles, demonstrating adaptability and self-motivation.
- **Secure File Upload and Sharing System |** Go
  Created a secure platform for file management, incorporating user-friendly features for creating, editing, and sharing files with database-backed storage.
- **GLink |** Cassandra DB, Tailwind CSS, Daisy UI, Node.JS, Express.JS, HTML
  Engineered a web service for geo-restricted short URL creation, focusing on usability, scalability, and high-performance database integration.
- **Soccer Analytics |** Postgres, FastAPI, Python, Pandas, Next.JS, Tailwind CSS, HTML, Daisy UI
  Designed a full-stack platform to visualize soccer team performance, leveraging data analysis to enable strategic, data-driven decision-making.
- **UI Library** | Tailwind CSS, Storybook, Next.JS, HTML
  Designed a UI Component library comprising of customizable components using Tailwind CSS. Components crafted include dynamic elements, Theme-Toggle buttons, Navbars, Floating Windows, and Dashboards.
- **Personal Website** | Tailwind CSS, Daisy UI, React.JS, HTML
  Developed a portfolio website to showcase technical expertise and professional projects. (aravinds.me)
- **FileX |** Java, Swing
  Built a cross-platform file explorer offering terminal and hierarchical views, designed for intuitive and efficient file navigation.

HONORS & AWARDS

- Excellence Award in Spanish Ab Initio in High School
- Soccer Team Captain (Intramurals at UC Berkeley and High School Team)
- Math Gold Medal Winner and Topper in several Math Olympiads and Math Competitions, High School and college