

Adith Gunaseelan

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SUMMARY

Passionate computer science graduate student at University of Southern California (USC) with a strong foundation in AI, machine learning, and software engineering. Experienced in full-stack development and building impactful real-world applications. Seeking to apply software engineering and research skills toward building AI-driven systems.

EDUCATION

University of Southern California (USC)

Master of Science in Computer Science

Los Angeles, CA

Expected Graduation, May 2027

University of Maryland, Baltimore County (UMBC)

Bachelor of Science in Computer Science, GPA: 3.802

Baltimore, MD

Aug. 2021 – May 2025

EXPERIENCE

Software Engineer Intern

NeuroLeap Corp (Remote)

June 2024 – Present

San Jose, CA

- Developed frontend/backend components using React, HTML and Node.js, improving system performance by 20%
- Optimized PostgreSQL schema and integrated Go-based backend services to reduce data retrieval time by 40%
- Enhanced UX with responsive design using CSS, boosting satisfaction by 25% and registrations by 15%
- Designed and deployed RESTful APIs cross-functionally with Node.js and Go, decreasing API latency by 35%

Teaching Assistant

UMBC Department of Computer Science

Aug. 2022 – May 2025

Baltimore, MD

- Conducted programming sessions for 600+ freshmen each semester across core computer science courses
- Supported classes including Python, C++, OOP, Computer Architecture, Data Structures, and Operating Systems

PROJECTS

Personal Portfolio Website | *React, GitHub Pages, AOS, Framer Motion* | [Website Link](#)

May 2025

- Designed and developed a fully responsive developer portfolio using React with animated scroll transitions
- Showcases software engineering work using React, HTML/CSS and JavaScript, with live previews and downloadable resume

HarmoniaNet | *Python, React, Flask, Librosa, CNN, Docker* | [Website link](#)

Mar 2025 – Apr 2025

- Built AI-powered music genre classification system using spectrograms and convolutional networks
- Deployed web interface with real-time predictions, audio visualization and user validation collected via Google Forms, using Docker for deployment

HydroSense | *React, Firebase, ML, Twilio, SendGrid, Chart.js* | [Demo Link](#)

Oct 2024

- Built a real-time hydroponics tracker that improved responsiveness using predictive alerts
- Integrated machine learning models to automate system monitoring and minimize manual intervention
- Implemented a dual-alert system via SMS and email to notify users of critical events in real time by detecting system changes early

TravelTrek | *OpenAI GPT-4, React, Firebase, TypeScript* | [Github Link](#)

Jul 2024 – Sep 2024

- Deployed AI chatbot for personalized travel to streamline trip planning and improve user experience
- Used GPT-4 for natural language responses and Firebase for scalable authentication and hosting

HONORS AND INVOLVEMENT

- Retriever Academic Award Scholarship
- Dean's List & President's List (multiple semesters)
- Member, Google Developer Group

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, HTML/CSS, JavaScript, TypeScript, Go, SQL, JavaFX

Frameworks: React.js, Node.js, Express.js, Flask, Firebase, GitHub Pages, Framer Motion

Developer Tools: Git/Github, Docker, VS Code, PyCharm, Postman, Swagger, Eclipse, IDLE, Bitwise, Linux

Libraries: pandas, NumPy, Matplotlib, TensorFlow, scikit-learn, Axios, Jest, dotenv, bcrypt, uuid, jsonwebtoken