

Adith Gunaseelan

adithnishanth@gmail.com | (667)-345-4053 | [linkedin.com/in/adithgunaseelan](https://www.linkedin.com/in/adithgunaseelan) | github.com/AdithNG

EDUCATION

University of Maryland, Baltimore County

B.S. in Computer Science | GPA: 3.802/4.000

Baltimore, Maryland

Expected Graduation, May 2025

- Recipient of Retriever Academic Award scholarship for the 4-year duration.
- Honored with President's List and Dean's List Certificates
- Member of the Google Developer Group. Working as a Teaching Assistant
- **Tracks:** Artificial Intelligence and Machine Learning, Game Development
- **Related Coursework:** Data Structures and Algorithms, Database Management Systems, Artificial Intelligence, Machine Learning, Natural Language Processing, Neural Networks, Computer Security, Computer Networks

EXPERIENCE

NeuroLeap Corp

Software Engineer Intern

San Jose, California (Remote)

June 2024 – Current

- Developed and maintained frontend and backend components for web applications using React and Node.js, which improved the system's overall performance by 20% by optimizing code structure and enhancing API interactions.
- Implemented responsive design principles in the web application using CSS and JavaScript, leading to a 25% increase in user satisfaction and a 15% rise in user registrations by improving cross-device compatibility and user experience.
- Optimized PostgreSQL database schemas, improving data retrieval efficiency by 40% by restructuring tables.
- Designed and deployed RESTful APIs, enhancing application performance and reducing API response time by 35%.

University of Maryland, Baltimore County

Teaching Assistant

Baltimore, Maryland

Aug 2022 – Current

- Crafted and led comprehensive tutoring sessions for approximately 600+ Undergraduate Freshmen across various computer science courses and programming languages each semester.

PROJECTS

HydroSense – AI-powered Hydroponics Monitoring Platform – [link](#)

HackUMBC Fall 2024 – Best Use of TinyMCE Winner

Baltimore, Maryland

Oct 2024

- Developed a real-time monitoring platform using React and Firebase that tracks environmental conditions for hydroponic systems, enhancing user responsiveness to plant health risks by 30% through predictive alerts.
- Integrated machine learning models to analyze historical data and predict future environmental conditions, reducing manual monitoring efforts by 40% and improving system efficiency by allowing proactive adjustments.
- Designed and implemented a dual-alert notification system with Twilio (SMS) and SendGrid (email), improving alert response time by 25%, helping users take timely action on potential risks.
- Collaborated with team members to optimize the user interface and data visualization, reducing user interaction time by 20% and creating a seamless experience for monitoring plant health.
- Incorporated real-time sensor data and predictive analytics, providing insights to users on when to adjust their hydroponic systems, leading to a 15% reduction in water and nutrient usage.

TravelTrek – AI-powered Travel Recommender - [link](#)

Team Lead

Baltimore, Maryland

July 2024 – Sep 2024

- Developed and deployed an AI-powered chatbot, improving user engagement by offering personalized travel recommendations such as tourist attractions and hotels, resulting in a 20% improvement in trip planning efficiency.
- Integrated OpenAI's GPT-4 API to handle natural language processing and allowing for dynamic responses.
- Utilized Firebase for user authentication and hosting, ensuring scalable deployment and secure API key management.

SKILLS

Programming: Python, C/C++, Java, JavaFX, JavaScript, Node.js, React.js, Express.js, PostgreSQL, MySQL, HTML/CSS, Go
Tools: Postman, Swagger, PyCharm, Eclipse, Git/Github, VS Code, Linux, IDLE, Code::Blocks, Unity, Unreal Engine, Bitwise