

# Atheeshwaran S. Durairaj

[Email](#) | [Linkedin](#)

## EDUCATION

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### University of Washington, Paul G. Allen School of Computer Science and Engineering

BS in Computer Science, Minor(s): Business Administration, Data Science, Applied Mathematics Jun 2026

- Courses: Artificial Intelligence, Machine Learning, Security, Distributed Systems, Operating Systems, Systems Programming, Hardware/Software Interface, Algorithms, Software Design Patterns, Data Structures and Parallelism

## WORK EXPERIENCE

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### Boeing | Python, Machine Learning, LLMs

Product Lifecycle Management Engineer Intern

Everett, WA

Jun 2025 - Present

### Echelon Consulting, LLC. | Python, LLMs, React, SQL

Software Engineer Intern

Chicago, IL

Jun 2024 - Sep 2024

- Developed a web application involving AI agents that offers our clients natural language responses/**visualizations** to inquiries about their websites and documents
- Utilized cutting-edge technologies such as RAG, Vector DBs, and OpenAI API to innovate within the AI space, optimizing retrieval **speed** and delivering more **accurate, context-aware** results
- Built high-priority features including a search autocomplete, a near real-time automated feedback loop on our generated content, authentication, and user logging, enhancing application security and system reliability and performance
- Followed Agile Scrum methodology and collaborated using Azure DevOps, increasing team productivity and streamlining project delivery timelines

### Santa Clara County Assessor's Office | C#, SQL, Lucidchart

Software Development Intern

San Jose, CA

Jun 2023 - Sep 2023

- Analyzed county office services and iterated on the systems in place to better service customers with planning their in-person visits, leading to a more positive response from our customers
- Developed an appointment scheduling system using .NET and Microsoft SQL Server, cutting booking time in nearly **half** compared to the existing service
- Attained familiarity with the software development process and planning project objectives, gaining valuable insights into understanding a project lifecycle

## RELEVANT PROJECTS

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### Reset Reminder App | JavaScript, React Native, Node.js, MongoDB

Founder & Principal Developer

Mar 2024 - Present

- Developing a reminder app that consolidates your notes, emails, and messages in one place to minimize scrolling in the morning and help reset from the previous day – currently iterating on the design to incorporate AI journaling tools
- Set up authentication at the application layer using Firebase, considering security and data protection principles
- Unveiled a production-ready MVP that students could interact with and pitched to two VCs

### Campus 360 UW | Project Planning and Orchestration, Deep Learning Methods

XRA (Extended Reality Association) Engineering Lead

Dec 2023 - Jun 2024

- Coordinated after-hours building entry and access to rooms with HUB staff, gaining permissions to photograph them
- Mapped spatial data of the Husky Union Building (HUB) at the University of Washington campus, including **4 floors, 2 ballrooms, the 7 stairways, and the 5 entrances/exits**
- Created an immersive 360-degree virtual tour of the HUB, including a dollhouse view, to intuitively navigate a building with clear accessibility challenges – captured on iPhone, Insta360 One X, and Insta360 Pro

### UWashington Formula Motorsports | Python, Arduino, ROS

System Software Engineer on Driverless Subteam

Jan 2023 - Jun 2023

- Collaborated with a cross-disciplinary team of engineering students to create the first iteration of an autonomous formula F1 vehicle, focusing on the vehicle's actuation systems for steering and throttle
- Optimized stepper motor control, **eliminating stalling**, to prevent oversteering and improve corrective response time
- Synchronized communication between the computer and sensors on the T35 vehicle, enabling real-time data to stream

## TECHNICAL SKILLS

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**Language:** Python, C#, Java, C

**Technologies:** SQL Server, React, MongoDB, Firebase, PyTorch, Node.js, Android, Arduino, MATLAB, REST APIs

**Interests:** AI Agents, Prompt Engineering, Machine Learning, Software Engineering, Productivity Apps, Business Consulting, Computer Vision, Augmented Reality, 3D Scene Reconstruction Techniques