

SHAWN MALIK

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EXPERIENCE

• Amazon Web Services

May 2025 - August 2025

Software Development Engineer Intern | IAM Control Plane

Seattle, WA

- Implemented a comprehensive visualization and monitoring solution for the Master Key/System Key architecture, including a full-featured dashboard, real-time metric emissions, automated alarms, and new primitives.
- Developed an audit tool to drop deprecated users in our DB. Used a Step Function and multiple lambdas to orchestrate a full audit and cleanup workflow.

• Keysight Technologies

June 2024 - December 2024

Full Stack Developer Intern

Colorado Springs, CO

- Developed and deployed key features for Keymail, an email-as-a-service platform, including scheduled sending, attachment handling, email statistics tracking, and unsubscribe functionality.
- Optimized RESTful APIs using Django to simplify integration with clients and third-party apps.

• National Aeronautics and Space Administration (NASA)

June 2023 - January 2024

Creo Windchill Solutions Team Intern

Greenbelt, MD

- Worked with NASA through Aerodyne Industries where I designed a deployable solar array using PTC Creo, enabling seamless transitions between stowed and deployed states for spacecraft applications.
- Automated engineering calculations by developing C++ scripts that extracted key model data, including total material usage and weight, enhancing accuracy and reducing manual analysis time.
- Delivered a final presentation to the team presenting applications of my model and received a letter of recommendation for my performance.

EDUCATION

• University Of Virginia

Graduation Date: December 2025

Major: Computer Science | Minor: Data Science

Charlottesville, VA

- Dean's List Student, HooHacks, Undergraduate Research Assistant, Club Pickleball, Startups@UVA
- **Relevant Coursework:** Data Structures and Algorithms, Intro to Data Science with Python, Computer Systems and Organization, Linear Algebra, Probability, Machine Learning, Software Development Essentials, Intro to Cybersecurity, Software Engineering, Artificial Intelligence

PROJECTS

• StatZone | Python, Discord API, JSON, FuzzySearch

May 2024

<https://github.com/shawnmalik1/StatZone>

- Created StatZone, an NBA utility bot for Discord that enables users to query player stats, strengths, and weaknesses without leaving their server.
- Improved search accuracy and user experience by integrating FuzzySearch to handle typos and partial name matches.

• HooWantsADegree | React, Node.js, Perplexity API, Python, Beautiful Soup

March 2024

<https://devpost.com/software/hoo-wants-a-degree>

- Built an AI-powered degree planner to help UVA students map out a 4-year course schedule based on their major and interests.
- Integrated Perplexity AI's API into a full-stack web app, generating custom degree plans that adapt to user preferences and UVA's curriculum. Built for HooHacks 2024.

• StockEye | Python, ML, Scikit-Learn, Linear Regression, NumPy, Pandas

March 2025

<https://github.com/shawnmalik1/StockEye>

- StockEye is a stock price predictor that uses a linear regression machine learning model to predict the short-term success of a given stock.

SKILLS

- **Languages:** Python, Java, TypeScript, HTML5, C++, Swift
- **Frameworks/Tools:** Django, React, Node.js, Git Version Control, AWS, Docker, REST APIs, Fusion 360, PTC Creo, 3D CAD Modeling, MATLAB, Visual Studio Code, Artificial Intelligence, Machine Learning, Agile Methodology