

SHAWN MALIK

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EXPERIENCE

• Amazon Web Services

May 2025 - August 2025

Software Development Engineer Intern | IAM Control Plane

Seattle, WA

- Designed and shipped an observability platform for the Master Key/System Key architecture, adding real-time dashboards, metric emissions, automated alarms, and new system primitives that significantly improved security visibility and operational readiness.
- Built an audit tool to automatically identify and drop deprecated users from the DB. Used step functions and lambdas to orchestrate a full audit and cleanup workflow, eliminating a security gap and enforcing least-privilege access.

• 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

- Designed a deployable solar array using PTC Creo, enabling seamless transitions between stowed and deployed states for spacecraft applications.
- Automated engineering calculations with C++ scripts that extracted key model data (material usage, weight), improving accuracy and cutting manual analysis time.

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, Reinforcement Learning

PROJECTS

• StatZone | Python, Discord API, JSON, FuzzySearch

May 2024

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

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

March 2025

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

- 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, SQL, HTML5, C++, Swift

- **Web (Full-stack):** Django, Node.js, REST APIs, React

- **Cloud & DevOps:** AWS (S3, CloudWatch, Step Functions, Lambda), Docker, Kubernetes, Linux

- **Data & Machine Learning:** NumPy, Pandas, scikit-learn, Web Scraping, Beautiful Soup

- **Other:** Git, Artificial Intelligence, MongoDB, MATLAB, Fusion 360, PTC Creo, 3D CAD, Agile