

Aamuktha Kottapalli

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Early-career Engineer with experience in infrastructure automation, cloud platforms (Azure, GCP), and scripting with Python and Terraform. Can build and monitor scalable systems, optimize deployments with CI/CD practices, and communicate across technical and non-technical stakeholders. Experienced with backend and frontend application development, and deployment.

Experience

GenDigital

Jun 2025 - Aug 2025

Site Reliability Engineer

Mountain View, CA

- Automated infrastructure provisioning using **Terraform**, deploying virtual networks and VMs in **Azure** for scalable applications
- Developed **CI/CD** support scripts and system monitoring automation using **Python** and **SumoLogic APIs**, reducing manual toil
- Collaborated with cross-functional teams across time zones, clarifying deliverables and driving platform initiatives
- Deployed non-product workloads through **Rundeck** and validated changes in **Verdad**, ensuring reliable release management
- Built a fraud detection platform leveraging **Google Cloud APIs** and **Gemini 2.0**, contributing to **cloud-first application** design
- Selected to present project outcomes to executives, demonstrating communication of complex technical concepts

Associated Students of Madison (ASM – Student Government)

Oct 2023 - May 2025

Student Election Commissioner

Madison, WI

- Manually tested beta election ballot software and suggested 2 feature changes for user accessibility to developers
- Advocated for and represented 48,000+ students on the IT Committee, recommending technical enhancements such as cybersecurity measures and system reliability updates

Kalan Lab

Oct 2023 - Aug 2024

Bioinformatics Researcher

Madison, WI

- Cleaned and transformed genomic datasets using **Python** for **machine learning** pipelines, ensuring high-quality data inputs
- Built predictive models in **PyTorch** and Python, improving classification efficiency by 108%
- Presented findings at **ML research symposiums**, using **data visualization** and clear reporting to communicate results

Projects

BadgerBurrow

Backend + Integration Developer

- Collaborated with team of 3 peers in a hackathon to develop a website showcasing 200+ study spots on campus
- Created 3 **API** routes with **Python Flask** and queried a **SQL** database of **web-scraped** data
- Implemented Google Maps API using **JavaScript** and **React** to make the website navigable
- Deployed final product in **Heroku**, continuing to update features and bugs using **GitHub** and **Discord**

SumoLogic Automation Tool

Backend Developer

- Built **Python** application with **RESTful API SumoLogic** platform integration, and a user configurable data pipeline for input
- Implemented dynamic spike detection thresholds capturing 95% of normal behavior patterns for adaptable error monitoring
- Developed automated email generation with embedded **matplotlib** charts and alert generation for real-time trend analysis
- Created hourly automated monitoring with **cron** scheduling and **SQLite** database integration for continuous application tracking

Rent Price by Region

Data Analyst

- Used **R** to analyze 4,500+ rent price data points from **Kaggle** datasets, computing regression, correlation, and distribution metrics to compile a visual report
- Led project team in creating a proposal, facilitated 2 brainstorming sessions, and plotted 4 major features of the final data analysis
- Facilitated 100% of punctual project submissions by utilizing text and email communication to delegate tasks before deadlines

Education

University of Wisconsin - Madison

May 2025

B.S., Computer Sciences

- Coursework:** Operating Systems, Algorithms, Information Security, Data Management, AI, User Interfaces, Data Modeling, Bioinformatics, OOP, Computer Engineering, Multivariable Calculus, Linear Algebra

Skills

- Programming Languages:** Python, Java, JavaScript
- Frameworks/Libraries/Tools:** PyTorch, React, Terraform
- Other:** Docker, Heroku, GitHub, Azure, Jira, SumoLogic, Rundeck, Confluence, CI/CD
- Interests:** 2022 Female Runner MVP & Captain of HS XC / Track, 2nd overall HS athlete to qualify for NYS championships