

Abhijit Vempati

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Education

The College of New Jersey (TCNJ)

May 2022

Bachelor of Science, Computer Science; Information Systems minor

- **Cumulative GPA:** 3.66/4.0
- **Certification:** AWS Certified Cloud Practitioner, Azure Fundamentals Certification (AZ-900), Azure Developer Associate (AZ-204)

Employment

AT&T

Jun. 2022 - Present

TDP Software Engineer II

Python, Cortex XSOAR, JavaScript, Bash, | AWS, Azure, Agile, Scrum

- Implemented security automation capabilities in AT&T's hosted virtual desktops (HVD) to enhance the ability to detect and counteract potential bad actors
- Introduced the HVD Reset Integration in Vortex which led to a remarkable 70% reduction in reset time by seamlessly communicating with the HVD middleware API, streamlining the process of resetting, and erasing sessions
- Spearheaded the development of Vortex's KeyFactor Integration, a product owned by the Cloud Security Enablement's Encryption team, to manage security encryption certificates on a global scale
- Empowered the Encryption team with chain of command escalation automations for expiring certificates, streamlining notifications to certificate owners and Azure Security Groups, resulting in a 65% improvement in escalation time
- Engineered the KeyFactor Integration and its commands in Vortex to communicate with the KeyFactor REST API using Python, significantly enhancing flexibility for playbook development
- Optimized AWS and Azure operating expenses by building a new WebPhone Integration using Python. Launching the new WebPhone integration improved connectivity between services and allowed Vortex to retire unused resources in the public cloud
- Architected the Vortex NACD API, a partner application in Cloud Security Enablement, to enhance the incident response capabilities for the business
- Refactored AWS Lambda functions using Python to enrich executive reporting, Vortex System health, and Integration Health Checks
- Launched an internal tool for scanning AT&T's internal databases for sensitive protection information that stay ahead of the curve by analyzing 3.4 billion data points in 4 hours with 80% accuracy

AT&T

Jun. to Aug. 2021

TDP Software Engineer Intern

Java, Oracle, Bitbucket, Python, HTML/CSS, JavaScript | Django, Pandas, Agile, Scrum

- Devised an automated error detection module that identified anomalies with AT&T's 5G location-based services, saving the company \$500,000
- Engineered a spelling proximity algorithm to correct errors with cell tower information which increased accuracy by 30% using Java and Oracle
- Created HBOConnect, a prototype to engage user personalization, as an integration to HBOMax using Python/Django

Projects

Halo

Jun. 2021 to May 2022

Python, PostgreSQL, HTML/CSS, JavaScript, Heroku, AWS | Django, Pyscopg2, boto3, django-storages

- Spearheaded a team of five to create an open-source hackathon management system using Python/Django
- Designed a scalable and normalized relational database schema for the PostgreSQL database using Django Models
- Deployed development and production versions via Heroku with Heroku PostgreSQL integration and Heroku CLI
- Integrated AWS S3 to store website static components and user resumes for website registration

Taco

Feb. 2020 to Mar. 2021

Linux, Python, MariaDB, Bash, HTML/CSS, GitHub | Django, Pandas

- Pioneered a full-stack enterprise application that handles tutoring session scheduling and client and employee management
- Designed a normalized and scalable database infrastructure to handle transactions using Django Models and MariaDB
- Collaborated with the Center's team as stakeholders to design and develop automated capabilities
- Developed Crispy, a CLI tool that automated 75% of Taco's database and data integration processes, such as database backups, using Bash scripting and Python
- Chartered a Pandas script that cleans and wrangles the TCNJ Semester Data to populate tables in the MariaDB database