Abhijit Vempati

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Education

The College of New Jersey (TCNJ)   *August 2018 to May 2022*
Bachelor of Science, Computer Science; Information Systems minor
- **Cumulative GPA:** 3.5/4.0
- **Certification:** AWS Certified Cloud Practitioner

Employment

AT&T   *Jun. to Aug. 2021*
TDP Software Engineer Intern
Java, Oracle, Bitbucket, Python, HTML/CSS, JavaScript | Django, Pandas
- 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

New Jersey Sustainability Reporting Hub   *Jun. to Aug. 2020*
Software Developer Intern
HTML/CSS, JavaScript, AJAX, GitHub, REST API | Bootstrap, D3.js
- Orchestrated and developed a strategic solution, MapSearchUI, to enhance the website experience, which was selected to be implemented for the company
- Refactored the prototype to a front-end application using JavaScript and D3.js, successfully integrating with the company's production stack
- Utilized the WordPress RESTful API to retrieve meta data to display a dynamic pie chart of popular tags on the website

TCNJ Tutoring Center   *Aug. 2019 to Present*
Computer Science Tutor
- Tutored college students in object-oriented programming, data structures, databases, algorithms, and software engineering

Projects

Aslan   *Jun. 2021 to Present*
Python, PostgreSQL, HTML/CSS, JavaScript, Heroku, AWS | Django, Pyscopg2, boto3, django-storages
- Spearheaded a team of five to create an open-source hackathon management and registration website 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
- 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

MapSearchUI   *Feb. to Apr. 2020*
Linux, HTML/CSS, JavaScript, Python, GitHub | Flask, Pyscopg2
- Built a prototype that refined and upgraded the landing page for NJ SRHub to display the site's meta data using JavaScript
- Led a team of three students in developing the prototype using Python, PostgreSQL, HTML/CSS, owning establishing a vision
- Implemented a Python Flask script that dynamically retrieved data from a PostgreSQL database

Activities

HackTCNJ Committee   *Mar. 2020 to Present*
Director

Led the planning committee in organizing TCNJ's annual hackathon