

# SMIT PATEL

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## EXPERIENCE

### Software Engineer

#### Optum

January 2023 – Present, Boston, MA, US

- Delivered an impactful presentation to a 150-member Data Science Guild, showcasing the utilization of a DCE environment for provisional **Azure Cloud** and AWS setups, thereby facilitating R&D in novel data science techniques within Optum.
- Developed **Python** based **microservices** to orchestrate Snowflake resources for internal tenants, facilitating **q** operations on the platform.
- Successfully elevated a fellow Trainee Development Program (TDP) associate from a non-technical background to Java proficiency through dedicated mentorship, covering comprehensive OOP concepts and industry best practices, while simultaneously enhancing our team's project contributions.
- Spearheaded the development of resilient Java Spring Boot APIs and pioneered the integration of automated code quality checks using GitHub Actions within the PAAN application, substantially improving code reliability and deployment efficiency by 20%.
- Innovated within the HCP platform by designing and executing PRM agent resources and infrastructure as code, significantly advancing operational effectiveness, and by architecting a new Snowflake tenancy model using **Python**, that bolstered the adoption of CI/CD and DevOps practices, setting a new standard for project scalability and collaboration.

### Software Engineer (Python)

#### Tesla Inc.

April 2022 – January 2023, Remote, US

- Revolutionized the deployment process by constructing and deploying CI/CD pipelines with GitHub Actions, Jenkins, Docker, and Kubernetes, cutting deployment times by half, and boosting overall productivity through streamlined and automated workflows.
- Led a critical system upgrade from **Python 2.7 to Python 3**, expertly transitioning databases from PostgreSQL to **MySQL** with strategic Linux SED scripting, thereby maintaining system integrity and enhancing security, and further secured application access by implementing OAuth 2.0 and **OIDC** with Python 3 and **Django** for reliable JWT handling and protected user authentication flows.
- Initiated the initiative to upgrade Tesla's Open edX Django application to Python 3, fortifying the educational platform's security and performance, and integrated dynamic content management with Node.js and Akamai Storage solutions, enabling efficient handling of over 50 remote learning modules.

### Software Engineer

#### Lendica Inc.

February 2021 – April 2022, Boston, MA, US

- Upgraded Lendica's Application Portal by engineering an advanced automation system with **Python and OAuth 2.0**, drastically improving the efficiency of third-party application integrations, and streamlining the user experience.
- Designed and deployed a highly responsive data processing pipeline using Apache Airflow 2.0, enabling automated, condition-based triggering of **REST API** functions that accelerated data retrieval and updates within the AWS S3 environment.
- Played a crucial role in forging a productive partnership with Terrayn, a top-tier Digital Marketing & SEO firm, by co-developing an MIT-licensed **Python pip package** that supports Metre compliance, complemented by a npm frontend package, significantly enhancing industry-standard regulatory adherence.
- Showcased extensive AWS proficiency by employing boto and boto3 libraries to facilitate efficient cloud operations and crafted a secure OAuth 2.0 authentication protocol for Lendica's front-facing platforms, incorporating automated backend token generation and PostgreSQL encryption to uphold high-security standards.

### Assoc. Software Developer

#### Acespritech Pvt. Ltd.

October 2017 – September 2019, Gandhinagar, Gujarat, IN

- Excelled in the creation of application components utilizing advanced programming techniques within an Agile framework, resulting in the timely delivery of high-quality software solutions.
- Developed responsive and user-centric web interfaces with **Python** and Django, improving user experience and contributing to a 20% increase in development efficiency through proactive involvement in code testing.

## PROJECTS

### Predict Facial Expression using ML

- Engineered an innovative facial expression recognition system using Keras and OpenCV, integrating a CNN architecture that enhanced model training efficiency; deployed as a user-friendly web application through Python and Flask.
- Leveraged advanced machine learning libraries (Sci-kit learn, Pandas) to refine data analysis, achieving a significant model accuracy milestone of 76%, and implemented strategic face-cropping algorithms to bolster prediction precision.

### Online Pizza Ordering Web App

- Pioneered a dynamic Online Pizza Ordering platform by architecting a robust RESTful API server in PHP and JS, optimizing the end-to-end ordering experience with real-time tracking capabilities for users.
- Orchestrated a comprehensive admin dashboard for order supervision and streamlined pizza status updates, directly contributing to operational efficiency and improved order management via a MySQL database integration.

## EDUCATION

### Master of Science in Computer Science

University of Massachusetts • Boston, MA, US • 2021 • 3.8 GPA

### Bachelor of Engineering in Computer Engineering

LDRP- ITR • Gandhinagar, GUJ, IN • 2017 • 3.5 GPA

## TECHNICAL SKILLS

*Programming Languages:* **Python, Java, C++, C#**

*Technologies (Front End):* **HTML, CSS, JavaScript**

*Frameworks/Libraries:* **REST, Django, Flask, .NET, Spring boot, React, Node.js, AngularJS, TypeScript, Kubernetes, Behave (BDD), Playwright**

*Tools/Libraries:* **Git, Jenkins, GitHub Actions, Docker, Terraform, Linux CLI, MS Office, Apache Airflow, PyCharm, IntelliJ, Pip, Poetry**

**VS Code, Hugging Face, Pandas, Sci-kit Learn, Keras, Open CV**

*Databases:* **MySQL**, PostgreSQL, **Snowflake**, **MongoDB**, **SQL**

*Cloud:* **Microsoft Azure(AZ-900 Certification)**, AWS (Amazon Web Services), GCP