

Divyanshu Patel

pdiv98@gmail.com | (864) 518-3569 | Charlotte, NC | [LinkedIn](#) | [Website](#)

SKILLS AND TOOLS

Languages & Frameworks: Python, TypeScript, JavaScript, Java, Django, React/Redux, HTML/CSS, C#, C++, C, Go

Databases: MySQL, PostgreSQL, DynamoDB, MongoDB

Other Technologies: AWS (Step Function), Terraform, Gitlab CI/CD, Docker, Azure DevOps, Node.js, Express.js, Git

Certification: [AWS Solutions Architect Associate](#)

EXPERIENCE

Ally

Senior Software Engineer, Charlotte, NC

July 2025 – Present

- Architected a serverless compliance engine and **REST APIs (AWS Lambda, Step Functions)** handling 5,000+ compliance records. Implemented NLP to automate relevance scoring, enabling 100% coverage of financial regulatory events.
- Spearheaded a GenAI Platform (**React, FastAPI**) to version, test, and dynamically serve prompts to product templates, shrinking the experiment-to-production cycle from months to days.
- Led the onboarding of 4 applications to **Dynatrace**, implementing custom PII redaction log processing rules. Enabled end to end tracing and proactive alerting, significantly improving visibility across all critical application journeys.

Software Engineer, Charlotte, NC

July 2023 – June 2025

- Developed **Terraform** modules for Dynatrace to bring an Observability as a code solution, driving cross-team adoption to boost visibility over 90% and standardize monitoring.
- Led mitigation of vulnerabilities, build optimizations, and automated patching across 14 Dynatrace AWS servers, cutting deployment incidents 80% for enhanced reliability.
- Coached and upskilled 25 employees across three Site Reliability Engineering cohorts, improving technical skills and contributing to a more efficient engineering team.

Clemson University

Software Developer Intern, Clemson, SC

August 2022 – May 2023

- Implemented a **Django** and **React** feature to manage multiple terms of service agreements for users, enhancing compliance and security across user interfaces.
- Revamped enrolled learner registration data by overhauling **MySQL** schema and streamlining Django migrations, enhancing profile accuracy, completeness, and data integrity for improved user insights.
- Migrated feature changes across projects, maintaining consistency and functionality in front-end and back-end systems.

Itron

Software Engineer Co-op, Clemson, SC

January 2022 – August 2022

- Developed a **JavaScript** solution for automating data conversions, which accelerated the development process by 11%.
- Automated 183 firmware tests using **C#**, and resolved 47 bugs in Azure DevOps, supporting the deployment of 3 key features to over 1 million electricity meters.

Clemson University Spectra

Undergraduate Researcher, Clemson, SC

August 2020 – May 2021

- Invented a Hexa-directional mechanical keyboard using Arduino, C++, and 3D Design to improve typing comfort and accessibility for patients with Carpal Tunnel Syndrome and Arthritis.
- Reverse-engineered an open-source Android application to demonstrate its applied software patterns and system architecture to a group of 14 engineers and students.

EDUCATION

Georgia Institute of Technology, Master of Science, Computer Science

July 2025

Clemson University, Bachelor of Science, Computer Science

May 2023

PROJECTS

Predictive Market Trading System, Python, NumPy, Pandas, Machine Learning

August 2024

- Developed an adaptive trading system using SMA, EMA, RSI, and a Bagged Decision Tree Learner to dynamically optimize portfolio positions, outperforming manual and benchmark strategies through data-driven decision-making.

OneClick Website Deployer, Terraform, AWS S3, AWS Route53, AWS CloudFront, AWS Certificate Manager

May 2024

- Engineered a Terraform module for rapid, serverless static website deployment on AWS, enabling seamless integration with personal domains; effectively used to launch 'divyanshu.me'.