

# Divyanshu Patel

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## 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](http://divyanshu.me)'.