

# HEMIL PATEL

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## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, TypeScript, HTML, C, C++, Maven, React, Ant/Shell

**Tools & Technologies:** RestAPI, GraphQL, Jira, Jenkins, Docker, Kubernetes, gRPC, JSON, Git, ElasticSearch, Eclipse, Redis, Tableau

**Development Frameworks:** Spring boot, Node.JS, Angular, JUnit, CI/CD, OOP, Kafka, Spark, Unix, Microservices, Flask, Django, Agile

**Databases & Cloud:** Postgres, MySQL, Snowflake, MongoDB, AWS S3, No-SQL, RDS, AWS DynamoDB, Apache Cassandra

## WORK EXPERIENCE

### Software Engineer | Onsemi

Scottsdale, AZ

August 2024 - Present

- Maintained and enhanced the Onsemi **Spring boot** website with **over 80,000 products**, resolving **10+** production issues in the web application and content management system, ensuring seamless functionality and **15% increase** in user engagement.
- Implemented **multi-factor authentication (MFA)** for customer logins on the Onsemi website using **Spring Security** and **OKTA**, achieving a **40% decrease** in unauthorized access attempts and a **10% increase** in customer retention.
- Developed a visibility report feature in **Java** that provided real-time notifications to stakeholders regarding product availability changes on the website, reducing product mismatch incidents by **30%**.
- Conducted comprehensive **end-to-end testing**, authored **10+** unit and integration tests, ensuring robust production code quality.

### Senior Software Engineer | Deets Digital

Ahmedabad, India

February 2022 - August 2022

- Implemented **scalable REST APIs** for retail financing using **Flask**, **Azure Functions** and WhatsApp for Business integration, handling over **5,000 daily transactions**, resulting in a **60% increase** in processing speed and a **\$50K boost** in monthly revenue.
- Effectively resolved **critical workflow issues** within the financing application, reducing distributed system downtime by **15%**, enhancing **system stability**, and improving daily **transaction processing speed**, resulting in improved overall system performance.
- Built a **Python** application to automate business logic functions for generating sales forecasting and inventory management reports, eliminating dependency on Excel spreadsheets and resulting in a **20% reduction** in man-hours per month for the client.

### Senior Software Engineer - AI Applications | HiTech Solutions

Ahmedabad, India

October 2020 - January 2022

- Led the proposal and implementation of a **scalable Python service** for a credit default prediction system, integrating a Logistic Regression model with **87% accuracy** into production, reducing operational costs by **30%** and speeding up **loan approvals by 2x**.
- Reduced **latency by 30ms** in the model API by implementing **caching**, **dynamic batching** and optimizing parameterized **queries**, increasing prediction speed and system **reliability by 20%**.
- Implemented a sentiment analysis model with **82% accuracy** on client satisfaction surveys and feedback emails and deployed a **Flask** API to connect the model to the backend of a **real-time dashboard**, driving organization-wide customer experience insights.
- Managed a team of engineers, overseeing **project management**, client communication, **code reviews**, and documentation through **JIRA**, successfully onboarding and **mentoring 3+ new hires** while improving **team collaboration** and **efficiency**.

### Software Engineer - AI Applications | HiTech Solutions

Ahmedabad, India

October 2019 - September 2020

- Developed and trained deep learning vision and text models to extract **over 50 attributes** from product discount images across **100+ product types** with **94% accuracy**, enriching product data and **improving pricing strategies** for the client.
- Engineered **end-to-end ETL** pipelines for feature extraction and data preprocessing, **cutting the project lifecycle by 25%** and facilitating faster model training and deployment.
- Automated supply chain dashboards and reports for clients in **Tableau** and **MySQL**, cutting man-hours by **15%**.

### Machine learning Engineer | Divine Infosys

Ahmedabad, India

April 2019 - July 2019

- Demonstrated a **Transformer** model PoC achieving **82% accuracy**, to generate legal text summaries and classify legal cases.
- Developed a data extraction solution using **Python**, **Selenium** and **MongoDB** to retrieve case documents from a list of websites.

## EDUCATION

Stevens Institute of Technology, *Masters in Computer Science*

Hoboken, NJ

September 2022 - May 2024

Gujarat Technological University, *Bachelors in Information Technology*

Ahmedabad, India

August 2015 - May 2019

## TECHNICAL PROJECTS

1. **Cloud-based Task Manager (React(Vite), Node.js, MongoDB):** Created a MERN stack project management app with core features like task assignment, progress tracking, and file sharing, utilizing **RESTful API** and **JWT authentication**.
2. **Catan Board Game (TypeScript, CSS, Vercel, Multithreading):** Developed a web application to generate random Catan boards ([Website](#)).
3. **My portfolio website (React, Next.js, Typescript):** A personal portfolio website to showcase professional work and projects ([Website](#)).