

ROHAN PANDEY

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Professional Summary:

Experienced Full Stack Developer with 5+ years in software development. Recognized for delivering high-quality solutions throughout the development lifecycle. Awarded 'Nayi Soch' award by Vice President of HR.

Education:

Master's of Science in Computer Science	<i>Santa Clara University, California</i>	<i>June '24</i>
<ul style="list-style-type: none">• Data structures and algorithms• Operating systems	<ul style="list-style-type: none">• Object Oriented Programming• Database Systems	<ul style="list-style-type: none">• Distributed systems• Artificial Intelligence

Technical Skills:

Programming Languages	: Java, Python, C++, Dart, C#, JavaScript, jQuery, GraphQL
Web technologies	: HTML5, JSON, CSS, SMB Protocol, Restful API with Postman
Frameworks	: BE:- SpringBoot, Node.js, Firebase, Flask, FE:- React.js, Angular.js, Vue.js, Dash
Database/Cloud Technologies	: MySQL, PostgreSQL, MongoDB & Docker, Microsoft Azure, Google Cloud, QEMU
Certification & Tools	: AWS SA Certified & Jenkins, Argo CD, GitHub, Jira, Gradle, Kubernetes, OAuth.

Professional Experience:

Tesla | Full Stack Intern *Palo Alto, USA* **June – Sep '23**

Inventory App -Full-Stack Intern | Battery Team

Python, Django, Flask, TypeScript, jQuery, Azure

- Leading the development of scalable Web & mobile based application from scratch using python (Django). Facilitating engineers to upload scanned testing documents & images to shared location using SMB protocol.
- Collaborated with PM & end-users enabling first time right approach, generated weekly savings of 30-man hours/2100\$.
- Developed Inventory tracking tool & Dashboard built based on user latest transactions. Optimized search queries.
- Boosted backend efficiency by 20% in a microservices framework, crafting and deploying REST API endpoints (e.g., sign-up, login, add, and verify employee ID) featuring typeahead search & Django-based OAuth 2.0 authentication and authorization mechanism. The application is deployed on Azure cloud instances and utilizes GitHub Action CD pipelines.
- Revamped old bootstrap into Tesla Design System with reducing no of clicks and returning visitor rate increased by 40%.
- Developed multiple Unit Test Cases using Jest and established scheduled Cron jobs through Jenkins.

Volvo Group | Senior Software Engineer

June '15 – Aug '22

Udaan(eCommerce) -Full-Stack Dev | 2020-22

Java, Angular.js, React.js SpringBoot, MongoDB, AWS, MySQL

- Designed and developed large-scale enterprise application using Angular and Java Spring Boot, including Stripe Credit Card Payments and robust security measures: JWT, OAuth2, OpenID Connect, SSL/TLS.
- Created database tables, authored migration scripts, engineered a Node.js-based backend REST API, launched it on AWS Elastic Beanstalk, and established comprehensive logging and monitoring using AWS CloudWatch.
- Created and oversaw secure AWS VPC-based MongoDB shared clusters for microservices.
- Practical experience with Kubernetes managed docker commands, deploying diverse services in Linux environments.

Analytics & Dashboards- Full-Stack Dev | 2017-20

Nodejs, Vue.js, GraphQL, Dash, Flask, AWS, MySQL

- Architected a web app tracker for Exhaust Energy Recovery System, deployed on AWS S3 Static Hosting with data storage buckets for A/B/C class road vehicle runs, automated the build using Argo CD and bitbucket.
- Utilized Hadoop, Kafka, and Flink to enable distributed data processing in both batch and streaming modes, specifically for constructing pipelines handling data from sensors.
- Developed reactive web apps and microservices in Python using Flask and Dash frameworks for data science platforms.
- Deployed containerized online complaint portal with MongoDB, Express and Node.js for logging and redressal of complaints.
- Developed multiple Unit Test Cases using Jest and established scheduled Cron jobs through Jenkins.

Product development | 2015-17 Electric Vehicle CAD drawings and performed Testing and Validation *3DExp, FEA*

Academic Projects

Santa Clara University -CS

Sept '22- Present

- **Distributed cloud Projects:** - Built Content Summarization using LLM techniques in AWS Sage maker and deployed frontend using cloud front and AWS lambda architecture for serverless functionality & EC2 for performance support.
- **AI/ML:-** [Music Streaming Application](#) - A dockerised C++ service enabling music access, scrobbling and ML driven recommendations, scrobbling, and authentication using Bcrypt for username hashing architected using Object oriented & SOLID principles. Deployed Singleton, factory & strategy patterns.
- Trained Machine learning models to predict CPU Burst time for process using Random Forest, Gradient Boosting tech.
- **Android/ios App Development :-** [Frugal Innovation hub](#):- Prototyped high-fidelity UI prototypes with Figma, dynamic UI using Dart (Flutter). Robust backend APIs (provider pattern) for Payment gateway, authentication using firebase-GCP.
- [Herculia](#): Metaverse Mobile Game-Payment gateway Stripe, Unity, Twilio, Firebase & deployed on AWS Game lift,
- [Hackathon for Humanity](#): Full-stack website with Spring Boot, Groovy for the app server, secured by Auth0.

Extra-Curricular

1st prize in Altair Paper presentation Bangalore || [Judge- Formula Bharat Segment](#) || [BAJA SAE](#) || Red Cross Certified || Musician