

# ROHAN PANDEY

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## Professional Summary:

Full Stack developer contributing to all phases of the software development lifecycle. Recognized for company-wide quality deliverables with a first time-right approach. **Awarded 'Nayi Soch' award by Vice President of HR.**

## Education:

<b>Master's of Science in Computer Science</b>	<i>Santa Clara University, California</i>	<i>Dec '23</i>
<ul style="list-style-type: none"><li>• Data structures and algorithms</li><li>• Operating systems</li></ul>	<ul style="list-style-type: none"><li>• Object Oriented Programming</li><li>• Database Systems</li></ul>	<ul style="list-style-type: none"><li>• Distributed systems</li><li>• Artificial Intelligence</li></ul>

## Technical Skills:

Programming Languages	: Java, Python, C++, C#, JavaScript, jQuery
Web technologies	: HTML5, JSON, CSS, SMB Protocol, Restful API with Postman
Frameworks	: <b>BE:-</b> SpringBoot, Node.js, Firebase, Flask, <b>FE:-</b> React.js, Angular.js, Vue.js, Dash
Database Technologies	: MySQL, PostgreSQL, MongoDB.
Cloud	: AWS Lambda, S3, AWS DynamoDB, Microsoft Azure, Google Cloud
Tools	: GitHub, Jira, Gradle, Docker, Kubernetes, Microservices, Bitbucket, OAuth, CI/CD

## Professional Experience:

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

### Inventory App -Full-Stack Intern | Battery Team

*Python, Django, Flask, JavaScript, jQuery, Azure*

- Designed file transfer module with global search for efficient folder retrieval (3000+ directories), incorporating access control based on admin and user roles. Saving 30-man hours/2100\$ weekly for powertrain team prototype engineers.
- Enhanced backend efficiency by 20% within a microservices framework, designing and implementing REST API endpoints, including sign-up, login, add, and verify employee ID, using Flask alongside Django-based OAuth 2.0 industry-standard authentication and authorization mechanism.
- Developed Inventory tracking tool & created a new table by merging three interconnected tables, developed scripts, stored procedures, and optimized search queries. Enhancing search speed by 15% with Postgres JSONB manipulation functions.
- Revamped old bootstrap into Tesla Design System with reducing no of clicks and returning visitor rate increased by 40%.
- Rapidly fixed UI defects in various components: modals, dropdowns, and search boxes & maintaining page responsiveness.
- Increased code coverage by crafting numerous Unit Test Cases in the frontend using Jest and Mocked Provider.

**Volvo Group | Senior Software Engineer** *Indore, India*

**June '15 – Aug '22**

### Udaan -Full-Stack website | 2020-22

*Nodejs, SpringBoot, Angular, MongoDB, AWS EBS*

- Built scalable cloud based SAAS 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.
- Designed and managed AWS VPC-based MongoDB shared clusters for microservices, prioritizing security.
- Practical experience with Docker commands, deploying diverse services in Linux environments.

### Web Applications & Dashboards | 2017-20

*Python, Dash, Flask, AWS RDS, S3, Vue.js, React.js, 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, using CI/CD and test-driven methodologies.
- Developed reactive web apps and microservices in Python using Flask and Dash frameworks for data science platforms.
- Created an online complaint portal with MongoDB, Express, React, and Node.js for logging and redressal of complaints.

### Product development | 2015-17

*3DExp, Pro-E, Catia, FEA, CAE*

- Integrated Electric Vehicle, conducted CAD drawings, prepared BOM, and performed Testing and Validation
- Finalized product specifications, interacted with customers, conducted GEMBA, and calculated product cost and weight.

## Academic Projects

**Santa Clara University CS**

**Sept '22- Present**

- Payments App ([Frugal Innovation hub](#)): Orange money payment API integration, authentication, Flutter, GCP & firebase.
- Mobile Game Webapp ([Herculia](#)): Mobile application using Flutter, Stripe, AWS Game lift, Unity, Twilio, UI, Firebase.
- Hackathon for Humanity: Full-stack website with Spring Boot, Groovy for the app server, secured by Auth0.
- Predicted CPU Burst Times using machine learning (Random Forest, Gradient Boosting)
- Real-time Twitter tweet analysis using Apache Kafka to create topics for Elasticsearch analytics.
- Full-stack Job Notification website using React, Gradle, Spring Boot, Docker, and AWS EC2 with pub-sub integration.
- Programmed and implemented real-time lane detection and automatic braking system using OpenCV in Python.

## Extra-Curricular

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