

## 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 in computer science</b>	<i>Santa Clara University, California</i>	<i>Mar '24</i>
<b>Bachelor's in mechanical Eng.</b>	<i>SGSITS Indore, India</i>	<i>June '15</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:

**Languages:** Java, Python, C++, JavaScript, CSS, jQuery, HTML5, Ajax, SMB Protocol.

**Frontend Frameworks:** React.js, Angular.js, Dash, Vue.js

**Backend Frameworks:** Django, Spring boot, Node.js, Firebase, Flask

**Databases:** MySQL, MongoDB, AWS DynamoDB, RDS, Postgres.

**PaaS Offering/Products:** AWS, AWS Lambda, AWS CloudWatch, S3, Matlab, OpenCV.

**Online Courses:** Version control using Git, AWS Cloud practitioner (Udemy), Microservices, Kubernetes.

### Professional Experience:

**Tesla (Full Stack Intern)** Palo Alto, USA *Python, Django, Vanilla JavaScript, jQuery* **June '23 – Present**

- Designed data transfer tool for visualizing 2000+ directories featuring Async dynamic search capabilities. This innovation saved 30-man hours weekly for powertrain team prototype engineers.
- Migrated inventory tracking website with 1500+ commodities to the Tesla Design System to ensure consistency across all Tesla web-based applications. This enhancement reduced no of clicks and returning visitor rate increased by 40%.
- Leveraged Django REST APIs for backend development, resulting in efficient data handling and enhanced application performance. Managed databases with MySQL, ensuring data integrity and optimizing query response times.
- Implemented robust error handling strategies, significantly reducing system downtime, and enhancing overall reliability.
- Architected using object-oriented programming principles, enabling the creation of modular and scalable applications.

**Volvo Group (Senior Software Engineer)** Indore, India **June '15 – Aug '22**

**Udaan -Full-Stack website (2020-22)** *Nodejs, Spring Boot, Angular, MongoDB, AWS EBS*

- Built scalable cloud based SAAS application (UDAAN) using Angular and Java Spring Boot, including Stripe Credit Card Payments and robust security measures: JWT, OAuth2, OpenID Connect, SSL/TLS.
- Migrated 100 TB design data to AWS, developed backend REST API in Node.js, deployed on AWS Elastic Beanstalk, and set up logging and monitoring with AWS CloudWatch
- Designed and managed AWS VPC-based MongoDB shared clusters for microservices, prioritizing security

**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.
- 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**

- Hackathon for Humanity: Full-stack website with Spring Boot, Groovy for the app server, secured by Auth0.
- Developed a Record Maintenance System using PL/SQL procedures to input customer data into the database.
- Predicted CPU Burst Times using machine learning (Random Forest, Gradient Boosting)
- Real-time Twitter tweet analysis with Apache Kafka, creating Kafka topics consumed by the Elasticsearch Consumer for further analytics.

**Bits Pilani Automotive Electronics** **Aug '20 – Aug '22**

- Programmed and implemented real-time lane detection and automatic braking system using OpenCV in Python.
- Improved vehicle object detection by 50% using Amazon Rekognition with custom labels, and stored images in Amazon S3 for scalability.

### Extra-Curricular

1st prize in Altair Paper presentation Bangalore || Judge- Formula Segment /SAE || Red Cross Certified || Guitarist || Singing