

Om Naik

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Summary

Versatile software engineer with experience in object-oriented programming, automation, and cloud technologies. Adept at developing APIs, integrating applications, and automating workflows to enhance business systems.

Education

University of California, Irvine September 2023 – December 2024

Masters Degree, Computer Science | GPA: 3.9/4.0 Irvine, CA

Courses: Advanced Data Structures, Machine Learning, Big Data Management, Operating Systems, Databases

University of Mumbai August 2019 – June 2023

Bachelors Degree, Information Technology | GPA: 3.9/4.0 Mumbai, India

Courses: Software Engineering, Advanced Network Security, Computer Networks, Artificial Intelligence, Algorithms

Technical Skills

Languages: Python, Java, C, JavaScript, C++, Kotlin, C#, SQL, Dart, XML.

Frameworks: Python Django, Spring Boot, Python Flask, Node.js, ReactJS, Flutter, Eclipse Jersey.

Machine Learning: TensorFlow, NumPy, pandas, Scikit-Learn, OpenCV, Matplotlib.

Networking: HTTP, SSL/TLS, SSH, IMAP, DNS, SNMP, TCP, BGP, ICMP, IP, OSI & TCP/IP suite.

Misc.: Git, MongoDB, AWS, JSON, SOAP, PostgreSQL, MySQL, Spark, Hadoop, Linux, Tableau, LaTeX, Shell.

Work Experience

Research Assistant | University of California – Irvine, Irvine, CA January 2025 – Present

- Automated periodic data synchronization for critical research data using **rsync** and cron jobs, ensuring up-to-date data backups.
- Integrated **SNMP** and **S.M.A.R.T.** monitoring in a NAS, enabling real-time system health tracking and proactive maintenance.

Systems Engineering Intern | Viasat, Inc., Carlsbad, CA June 2024 – December 2024

- Engineered a Systems Configuration Management Utility using **PySide6** and **MVC architecture** to streamline satellite configuration workflows, enabling seamless validation of **JSON** configurations against defined schemas.
- Automated UI testing using **pytest-qt** and submodule validation using **GitHub Actions** and configured workflows to dynamically generate deployment parameters, reducing manual deployment time by over 70%.
- Deployed and configured **EC2** instances on **AWS** to execute large-scale benchmarking workloads, enabling comprehensive performance comparisons across messaging platforms like Kafka and Pulsar using an in-house benchmark framework.
- Embedded GitHub APIs for in-app commit, branch, and repository management to streamline satellite configuration workflows.

Student Developer | SAP, Newport Beach, CA January 2024 – June 2024

- Developed an **R-CNN**-based image recognition model with **87% accuracy** to detect retail brands and products in promotional proofs, enabling automated validation and reducing manual review time by 85%.
- Implemented metadata-driven matching logic using geolocation and timestamps to accurately link image proofs with contract promotions and integrated with **Python Flask** API, improving fraud detection and reducing mismatches.
- Deployed the end-to-end validation system on **AWS Cloud** with integrated CI/CD pipelines via **Jenkins** and wrote comprehensive unit tests using **pytest**, ensuring reliability and smooth delivery.

Data and Technology Fellow | University of California – Irvine, Irvine, CA December 2023 – June 2024

- Developed an LLM-powered IT help chatbot using **Python**, **Langchain**, and **OpenAI** APIs, utilizing internal onboarding documentation to streamline student employee support, leading to a 10% reduction in technical support queries.
- Prototyped a VisionOS application by porting the Canvas LMS to Apple Vision Pro using **Swift**, exploring the potential of mixed reality interfaces in enhancing student engagement and educational accessibility.

Software Engineering Intern | Oracle India Pvt. Ltd, Mumbai, India June 2022 – July 2022

- Engineered client-specific RESTful APIs in **Java Spring Boot** as part of Oracle FLEXCUBE integration, enabling seamless onboarding of a major banking client and supporting core banking functionalities.
- Authored comprehensive **JUnit** tests and managed **Kubernetes Helm Charts** for deploying containerized applications, improving deployment reliability and maintaining **CI/CD** pipeline standards.

Backend Developer Intern | IllusTech Infoway Pvt. Ltd., Mumbai, India June 2021 – August 2021

- Programmed an efficient **Django** backend with **PostgreSQL** database with CI/CD pipelines for a property dealer.
- Built IllusTech's Single Page Application website using **ReactJS**, improving customer interaction and usability.

Projects

Thread Scheduler - Developed a round-robin thread scheduler in C with automatic alarm-based context switching (UNIX-like).

Bank Churn Analysis - Built Federated Learning MLP model in TensorFlow to predict bank churn with 96% accuracy.

Student and Faculty Portal - Created a secure Spring Boot portal with JWT authentication and MongoDB for data storage.

Linux System Perf. Monitor- Engineered a Linux system monitor in C by parsing /proc to track CPU, memory, and I/O stats.

Marketplace for Farmers - Developed cross-platform Flutter app with Node.js backend and Solidity smart contracts on Ethereum.

SQL Game - Built a SQL-powered game with Python Flask API, Tkinter desktop app, and ReactJS SPA frontend.