NIKHIL CHHADIKAR

Backend Developer | Full-Stack Engineer | API & Platform Specialist

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Experienced Backend Developer with 4+ years of professional experience building secure, scalable APIs and full-stack applications across fintech and research environments. Led development of 50+ enterprise-grade APIs at HSBC and built distributed data systems and NLP pipelines during graduate research. Skilled in Python, Node.js, REST, Docker, CI/CD, and cloud-native development. Awarded HSBC Circle of Excellence (2020, 2021) for driving production innovation and automation. Actively seeking impactful roles in backend systems, platform engineering, or infrastructure tooling.

TECHNICAL SKILLS and TOOLS

- **Core Strengths**: RESTful APIs, Backend Systems, Python, Vue.js, Node.js CI/CD Automation, Docker.
- **Frameworks & Tools**: Flask, Django, Express.js, Jenkins, GitHub Actions, SonarQube, MuleSoft.
- **Databases**: PostgreSQL, MySQL, MongoDB, Oracle.
- **Frontend**: React.js, Vue.js, Tailwind CSS, Bootstrap.
- **DevOps & Cloud**: Docker, Kubernetes, OpenShift, AWS (EC2, S3), GCP (basic), Jenkins.
- **Security & Testing**: Secure Code Warrior (SCW), Checkmarx, Mocha, Jest, Pytest.
- **Languages**: Python, Java, JavaScript, Kotlin, Groovy, C/C++.

PROFESSIONAL EXPERIENCE

Software Developer,   Jul 2019 - Nov 2022
HSBC Software Development (India) Pvt. Ltd.

- Developed and maintained **50+ REST APIs** using MuleSoft for core banking products (e.g., transaction summaries, reward points, CVV delivery), serving millions of secure requests monthly.
- Led global workshops and API design reviews across **UK, South-East Asia Mexico, and Canada** teams to align backend interfaces and promote enterprise adoption.
- Automated CI/CD pipelines using Jenkins, Python, and Groovy, reducing deployment time by 30% and **eliminating 4+ hours/week** of manual overhead.
- Improved observability and incident diagnostics by building internal logging/reporting tools (Splunk, SonarQube), reducing time to resolution by 40%.
- Played a key role in **HSBC's patented batch analysis tool "zSASA"**, streamlining mainframe impact assessments for COBOL flows.
- Consistently upgraded legacy APIs to Silver-standard compliance, contributing to **modernization of 200+ services**.
- Recognized with **HSBC Circle of Excellence Award** in 2020 and 2021 for impact across automation, reliability, and tooling.

Lead Developer, zSASA (Z-Series Application for System Analysis)
HSBC Software Development (India) Pvt. Ltd.

- Led the complete backend development of zSASA, an **HSBC tool built entirely in Python**, designed to analyze extensive batch flows and map interdependencies across 5000 COBOL programs, Copybooks, JCLs, VSAM Files, and SQL Databases.
- Optimized the system to provide cross-functional visibility and insights, improving batch flow analysis efficiency for HSBC's global business units. Enhanced processing accuracy and reduced manual intervention, making the tool a critical component for analyzing complex system dependencies and batch operations.

Student Consultant,   Jan 2023 - May 2024
University of New Brunswick (Canada)

- Provided Tier 2+ technical support for VPN, MFA, and device issues, maintaining 98.5% system uptime for staff and students.
- Led resolution of priority escalations and collaborated with internal IT teams for issue diagnosis and permanent fixes.
- Configured account-level access controls and advised on cybersecurity best practices, contributing to safer student computing environments.

SELECTED TECHNICAL PROJECTS

- **DISTRIBUTED SERVERLESS SPATIAL AND SQL QUERY PROCESSING –** github-DaskDB   Mar 2024
  Architected a serverless data analytics system using Python Dask on AWS, enabling scalable spatial query processing over distributed clusters. Built REST APIs and Dockerized JupyterHub for secure, fault-tolerant access. Implemented cross-VPC communication and auto-scaling with cloud-native tools.
  Tech Used: Python, Dask, AWS EC2/S3, REST API, Docker, VPC Networking.

- **MOVIE GENRES CLASSIFICATION –** github-MGC   Dec 2023
  Built a multi-label classification model for movie genres using BERT, TF-IDF, and Word2Vec. Compared SVM, Logistic Regression, and transformer-based pipelines. Automated model evaluation and integrated outputs into a streamlit-based UI for user testing.
  Tech Used: Python, Scikit-learn, BERT, NLP, Streamlit.

- **RESTAURANT RESERVATION SYSTEM** - github-RRS   Apr 2023
  Designed a secure, role-based full-stack reservation app using Flask and Vue.js. Integrated LDAP for authentication and implemented encrypted session handling and admin dashboards.
  Tech Used: Flask, Vue.js, MySQL, LDAP, Docker

EDUCATION

Master of Computer Science | University of New Brunswick, CA| **CGPA - 4.15/4.3**   Jan 2023 - Oct 2024
Bachelor of Technology | Computer Science | University of Pune, IN |**First Class with Honors**   Jul 2015 - May 2019

CERTIFICATIONS

- Orange, Yellow, White Belt Certification, *Secure Code Warrior*
- Microsoft Technology Associate, *Microsoft*

AWARDS

- Circle of Excellence, HSBC Software Development India (2020, 2021)