

Shaurya Chandhoke

Senior Software Engineer

chandhoke.shaurya@gmail.com • 732-379-8069 • linkedin.com/in/shaurya-chandhoke

SKILLS

Machine Learning: Deep Learning, Natural Language Processing, Computer Vision, Large Language Models, Dimensionality Reduction, Convex Optimization

Software Engineering: OOP, TDD, Serverless Architecture, Microservice Architecture, Distributed Computing, API Architecture, Data Governance, Agile, CI/CD

Technologies: AWS, Spring Boot, GraphQL, Flask, RabbitMQ, Docker, Kubernetes, Hibernate, REST, Jenkins, Spark, Splunk, Selenium, NLTK, Scikit-learn, TensorFlow, Keras

Programming: Python, Java, C++, JavaScript, R, Bash, Julia, Rust, PostgreSQL, MongoDB, MySQL, Elasticsearch, Redis, Oracle DB, Sybase IQ, KDB+

WORK EXPERIENCE

JPMorgan Chase & Co, Jersey City, NJ

Senior Software Engineer, Credit Risk Reporting

Dec 2023 – Present

- Engineered time-invariant **ETL** data pipeline and core service for multi-terabyte data hydration with **Java** and SQL stored procedures, refining credit reporting calculations
- Implemented SARIMA **time series model** to generate seasonal exposure forecasts, enhancing quantitative risk analysis and improving front-office decision capabilities
- Refactored monolithic credit risk apps into **Spring Boot** MVC architecture, improving batch processing tasks by reducing bulk data upload time by **15%** as of FY24 Q1
- Led database migration from Sybase IQ to **Oracle DB**, optimizing data warehousing performance and boosting aggregation speeds by **10%** for downstream services

ADP, Roseland, NJ

Senior Software Engineer, Marketplace

Sept 2023 – Dec 2023

- Constructed **K-Nearest Neighbor** recommendation system in AWS SageMaker for API marketplace, driving **10%** increase in purchases in Q1 using personalized suggestions
- Directed collaboration effort with engineers to migrate on-premise apps to **AWS** EC2, Lambda, and S3 to cut down operating costs by **17%** in FY23 Q4

ADP, Roseland, NJ

Software Engineer, API Tooling

Aug 2020 – Sept 2023

- Developed **API** search and documentation tool using Spring Boot and **GraphQL**, increasing search hits by **35%** using custom API metadata enrichment service
- Created automated reports using **Spark** and Databricks to analyze user web app behavior and improve product UX, reducing negative feedback by 12-15% within 2022
- Optimized **Angular** web app by refining JSON parsing algorithm, decreasing page load time by 10-20 seconds and increasing UI animation responsiveness in early FY21 Q3

ADP, Roseland, NJ

Software Engineering Intern

May 2019 – Aug 2019

- Integrated IBM Watson **NLP** into Slack workflow, achieving 100% adoption of solution from test groups between May and June 2019
- Streamlined 5+ server-side **Node.js** CLI tooling algorithms for efficient API library bundling and schema validation, earning infrastructure-wide approval and adoption

New Jersey Institute of Technology, Newark, NJ

Embedded Computing Research Assistant

Jan 2018 – Dec 2018

- Developed real-time **SLAM** algorithm in **C++** for lidars on NVIDIA Jetson boards, enabling autonomous traversal decisions within 500ms for robotic navigation
- Produced cost-effective pothole mapping application in **Qt** using lidar data streaming pipelines, securing **\$10,000** TechQuest innovation grant in April 2018

PROJECTS

Tenor AI: Crafted **Python** CLI application to generate midi music using **LSTM** machine learning model trained on Maestro dataset

Computer Vision Toolkit: Produced computer vision tools ranging from edge tracing using non-maximum suppression to sky detection using **K-Means** clustering in Python

Google Translate Clone: Forged multilingual text translation model using **Seq2Seq** encoder-decoder LSTM architecture, trained on French-English parallel corpora

Black Scholes Pricing System: Designed full-stack web application in **Flask** and Angular to price European option contracts using Black Scholes differential equation

Fama French Allocation Engine: Formulated **algorithmic** trading engine leveraging Fama French Three Factor model to simulate long/short trading strategies

EDUCATION

Stevens Institute of Technology, Hoboken, NJ

Master of Science, Machine Learning

Sept 2020 – May 2023

New Jersey Institute of Technology, Newark, NJ

Bachelor of Science, Computer Science

Sept 2016 – May 2020