Chirag Kathoye

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EDUCATION

Veermata Jijabai Technological Institute (VJTI) Mumbai
B.Tech Information Technology (CGPA: 7.95/10) 2020 – 2024

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python
Backend Technologies: Java Spring Boot, Spring MVC, Node.js, REST, Appian
Frontend Technologies: React.js, JSP, Bootstrap
Machine Learning: Scikit-learn, Pandas, NumPy, Matplotlib, TensorFlow, PyTorch
Tools & Databases: PostgreSQL, Kafka, Redis, Git, GitLab, AWS, Jenkins, Firebase

WORK EXPERIENCE

National Payments Corporation of India Sept. 2024 – Present
Software Developer – Mobility Solutions (MS) Chennai, IN

- Led optimization of the **GST module** using multithreading and parallel processing, implementing **5+ new features** (ISD, Rebate, Reversals), reducing report generation and fee calculation time by **75%**, serving **700+ bank branches** and **millions of daily transactions**.
- Developed and deployed frontend features for bank and admin portals, improving operational efficiency by **50%** and enhancing user experience for **700+ partner banks** and **50,000+ daily users**.
- Engineered backend of the **UPI HELP dispute and complaint system**, integrating Kafka message processing and UDIR, reducing complaint resolution time to **under 5 minutes**, handling **1 million+ daily messages**, showcased at **GFF 2025** by the RBI Governor.

Citi Bank May 2023 – July 2023
Summer Intern – Global Functions Technology (GFT) Pune

- Developed an application to automate internal workflows using **Appian Low-Code** solutions, improving Risk and Control team productivity by **30%**, processing **200+ internal tasks per week** more efficiently.
- Developed a full-stack Asset Management platform in Agile sprints, reducing prototype delivery time by **40%** and enabling stakeholder feedback cycles **3x faster**.

Indian Institute of Technology Bombay (IIT Bombay) Aug. 2023 – May 2024 (Part-time)
Research Intern – Cybersecurity and Machine Learning Mumbai, India

- Built an **EDR system** combining rule-based and ML detection, identifying **zero-day threats in real-time** and analyzing **100k+ events/day**.
- Crafted **Vajra Rule Engine** with **2k+ rules**, boosting coverage by **40%** and reducing false negatives by **20%**.
- Applied **behavioral and anomaly detection** to reduce false positives by **15%**, monitoring **50k+ endpoints**.

PERSONAL PROJECTS

FinWise | *ReactJS, Java Spring Boot, Firebase, Tailwind CSS*

- Developed a full-stack personal finance platform automating **loan planning**, **tax estimation**, and **ITR filing**, reducing manual effort by **60%**.
- Managed and deployed **20+ RESTful APIs** using Spring Boot with **JWT authentication** and modular architecture, ensuring high scalability and reliability to support **large volumes of requests** efficiently.
- Integrated **Firebase Realtime Database** for secure cloud storage and synchronization, reducing data latency by **35%** and supporting real-time updates for **500+ concurrent users**.

Epileptic Seizure Prediction Model | *Python, Pandas, Scikit-learn*

- Engineered feature pipelines from EEG signals using statistical and frequency-domain analysis, processing **50k+ EEG recordings** and reducing preprocessing time by **30%**.
- Built and fine-tuned an **SVM classifier** to predict seizure severity, improving prediction accuracy by **15%** over baseline models, successfully evaluating **5+ model variations** and optimizing performance metrics.

SOFT SKILLS

Leadership, Collaboration, Problem-Solving, Analytical Thinking, Adaptability, Communication, Agile Teamwork