CHINMAY SARAF

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WORK EXPERIENCE

Intercontinental Exchange, Atlanta, USA | *Full Stack Developer*   **01/2024 - Present**
- Delivered **15+ features** for a trading application used by traders for post-trade analysis, enhancing efficiency.
- Improved performance of commodity trading analysis tools by **30%** using **Java SpringBoot** and **ReactTS**.
- Contributing to the development of a centralized data system, set to unify data access across the organization.

The MathWorks Inc., Boston, USA | *Software Engineer (Graduate Intern)*   **05/2023 – 08/2023**
- Collaborated with the team to enhance 3 major Simulink components using **C++**, **JavaScript**, and **MATLAB**.
- Architected the design of a Simulink component of a simulation monitoring system.

Deutsche Bank Group, Pune, India | *Full Stack Developer (Associate)*   **07/2019 – 07/2022**
- Boosted application performance by **30%** through full-stack development and optimization efforts.
- Designed innovative UI features using **ReactJS**, enhancing the experience of **5000+ users**.
- Developed and integrated APIs for a **Java SpringBoot** microservices-based architecture with **11 services**.
- Improved database efficiency by **15%** through **sharding** and **indexing** in an **Oracle SQL** environment.
- Automated testing processes with **JavaScript**, **Gulp**, and **Selenium**, reducing testing time by **42%**.

Persistent Systems Ltd., Pune, India | *Software Engineer (Project Intern)*   **09/2018 – 04/2019**
- Designed a decentralized application leveraging **Hyperledger Fabric** to streamline the manufacturing supply chain.
- Implemented a secure and robust blockchain system, adopted by **4000+ customers**.
- Developed chaincode using **Go**, middleware with **Node.js**, and the user interface using **AngularJS**, **HTML5**, and **CSS3**.

EDUCATION

University of Illinois Urbana-Champaign   **08/2022 – 12/2023**
Master of Computer Science   3.95/4.00 GPA
Pune Institute of Computer Technology   **07/2015 – 05/2019**
Bachelor's in Computer Engineering   9.27/10.0 GPA

TECHNICAL SKILLS

- **Programming Languages:** Java, Javascript, Typescript, Python, C++, C, Go, CUDA, MATLAB
- **Tools & Frameworks:** React, Spring boot, Angular, Nodejs, CodeQL, Docker, Kubernetes, Hyperledger Fabric, Gulp
- **Databases:** Oracle SQL, MySQL, MongoDB, Neo4J

KEY PROJECTS

AI-enabled Automated Blackbox Testing of REST API-based Applications
- Developed a Blackbox Testing tool for **REST API-based projects** using **GPT-3.5**, saving test development time by **40%**.
- Generated interaction graphs for microservices through static code analysis with **CodeQL**, enhancing system visibility.
- Implemented **Java-based module** to create a unified **Swagger** and **Python script** streamlining the tool's functionality.
- Improved code coverage by **10%**, outperforming industry tools such as **RESTler**, **Evomaster**, and **RESTestGen**.

OnioPay – Payment Regulating Application for Mentally Challenged People
- Developed a **React Native** mobile app to address overspending challenges for individuals with mental disorders.
- Integrated a machine learning prediction model using **Keras**, achieving **95.42% accuracy**.
- Created a user interface with **React Native Material UI libraries**, supporting **4 distinct use cases**.
- Secured a **top 10 position** out of **50 teams** from India, paticipating in the **Deutsche Bank Global Hackathon**.

Decentralized Supply Chain Management for Automobile Industry
- Developed a decentralized application addressing 5 key use cases in **Supply Chain of** the automobile industry.
- Led the architecture design and implementation using **Go**, **Node.js**, and **AngularJS**.
- Integrated the system with **Raspberry Pi** through **Python scripting**, automating critical processes.
- Showcased the project at the **National Level Project Competition – INC'19**, earning the **Runner-up Award**.

Attendance Log Generation using Image Processing
- Created an attendance logging application leveraging **Image Processing** with the **OpenFace model**.
- Achieved **84.25% accuracy** on a dataset of **30,000 images**, demonstrating robust performance.
- Developed the back-end using **Python-Flask** to process API calls for real-time image recognition.
- Qualified as a finalist in the **Smart India Hackathon 2018**, organized by the Government of India.