Param Manoj Bhavsar

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Work Experience

Eaton July 2024 – Present
Software Engineer *Syracuse, NY*
- Developed an IoT-based cloud gateway and firmware to control, test, and monitor industrial hazard lights via a BLE mesh network, enabling remote support and reducing overall product support costs by 45%.

Eaton May 2023 – August 2023
Software Engineering Intern *Plymouth, MN*
- Implemented a GUI application and REST APIs using Qt Designer, Python, and C++ to streamline the control and monitoring of power grid devices, resulting in a 50% reduction in hardware testing efforts and a 15% increase in production line speed.

HSBC January 2022 – July 2022
Senior Software Engineer - Commercial Banking *Pune, India*
- Led the country onboarding project which involved developing microservices in MuleSoft and Spring Boot to accommodate 4 new countries and 30+ payment types.
- Collaborated on the design and implementation of HSBC's Banking as a Service platform, a critical infrastructure supporting over 18,000 corporate clients and managing an annual transaction volume exceeding $3 trillion.
- Revamped and optimized the staff web application, resulting in a 25% reduction in application response time.

HSBC July 2019 – December 2021
Software Engineer - Commercial Banking *Pune, India*
- Worked on developing Spring Boot services, leveraging object-oriented programming paradigms and advanced Java features, to cater to the needs of over 2 million customers.
- Designed and developed a payment push notification service using Java, ReactJS, IBM MQ, and Kafka technologies, supporting over 10,000 corporate customers in the UK and India.
- Contributed to the web development of a payment tracking feature using React.js and Redux, driving a notable 10% annual growth in customer engagement.
- Directed the seamless transition of 15+ databases from local SQL servers to Google Cloud Platform's Atlas, enhancing overall system performance by 40% and ensuring zero downtime during the process.

Projects

Retinal Vessel Segmentation
- Created a novel computer vision algorithm to compute vessel wall thickness in optical coherence tomography retinal images, as part of an NIH-funded research project aimed at early detection of hypertension.

Blockchain-Powered Compliance Management System
- Instituted a blockchain-powered compliance management system to ensure transparency and security in transactions between organizations using a distributed ledger, enabling real-time verification and tracking of compliance status across stakeholders in service management.

Education

The Ohio State University, Columbus August 2022 - May 2024
MS in Computer Science and Engineering (GPA: 3.7/4)

Pune Institute of Computer Technology, India July 2015 - May 2019
Bachelors of Engineering in Computer Engineering (CGPA: 9.21/10)

Technical Skills

- **Programming Languages:** Java, Python, C, C++, Swift, Go, JavaScript, CSS, HTML
- **Databases:** Oracle Database, MySQL, PostgreSQL, MongoDB, Firebase
- **Libraries & Frameworks:** Spring Boot, MuleSoft, ReactJs, Redux, BootStrap, Pytorch, TensorFlow, Sklearn
- **Tools & Technologies:** GCP, AWS, Kafka, Docker, Kubernetes, IBM MQ, Android, Git, Jenkins, Slurm, CUDA

Co-curricular Activities

- Served as a **founding member** of project incubator committee at **NumFOCUS** organization.
- **Mentored** 30+ pre-university students in developing deep learning models at **Google-CodeIn 2019** for **TensorFlow**.