Malhar Damle

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EXPERIENCE

Software Engineer, Capital One, New York City   Feb 2024 – Present

- Significantly contributed to the design and implementation of a ground up monthly bank statement generation platform supporting **80%** of a company-wide bank modernization effort to replace 3rd party vendor legacy technologies, leveraging AWS **serverless** solutions.
- Built and deployed **ETL** pipelines from scratch to process **15 TB+** of account and transaction data across **17M+** accounts using **Python** and AWS **Glue** achieving **99.9%** data accuracy.
- Developed a scalable workflow API using **GO**, AWS **Lambda**, and **DynamoDB** to enable an automated multi-tenant onboarding process reducing time-to-deploy from **3-4 days** to under **5 minutes.**
- Created real-time monitoring dashboards and production alerts using AWS **CloudWatch** and **New Relic** to ensure system reliability and improve incident response time while continuously implementing performance optimization tweaks leading to a **50%** reduction in E2E platform processing time.
- Engineered microservices in Python deployed on AWS **Lambda** and **ECS** to perform real-time credit card fraud detection, integrating with **DynamoDB** and **S3** for **low-latency lookups** and storage
- Utilized rules-based orchestration logic to build a **backend for frontend framework and enabled teams** to bring their own logic through a core library accelerating speed to market while enabling **dynamism**.

Software Engineer Intern, Capital One, Mclean, VA   Jun 2023 – Aug 2023

- Built a prototype scoring engine to assess AWS infrastructure maturity (efficiency, security, compliance) across **thousands** of teams, driving **cost** and **performance** optimizations.
- Used **Python**, **Docker**, **AWS**, and **PostgreSQL** to build this tool, to provide feedback for AWS application teams to prioritize their infrastructure tasks and elevate their applications to the next level.

Full Stack Developer Intern, Rugged Threads, Corvallis, OR   Sep 2022 – Jun 2023

- Created a webpage from the ground up using **Ruby** on Rails for a small business, transitioning them to a fully digital methodology to store work orders, improving efficiency by 10x, and eliminating ALL excel and paper records.
- Designed the front end in **Bootstrap** and **SCSS** and stored the data via **POSTGRESQL**, creating a scalable product.

TECHNICAL SKILLS

- Languages: **Python**, GO, **C++**, JavaScript, SQL
- Cloud & DevOps: AWS (**Solutions Architect Certified**), Docker, Jenkins, Git
- Tools & Frameworks: YOLO, DarkNet, PostgreSQL, **HeavyAI**
- Software Engineering: Microservices, API Dev, ETL Pipelines, Serverless Architectures, Real Time Monitoring
- **Published** *Behavioral Cloning for Automonous driving on Highways* (Honors ML research project), Marine AI

EDUCATION

Oregon State University, Corvallis, OR   Dec 2023
Honors Bachelor of Science in Computer Science, GPA: 3.87/ 4.00