# ARJUN HANDLI

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## SKILLS

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|---|---|
| **Programming:** | Python, C, C++, Java, Go, Rust, TypeScript, SQL, BASH |
| **Tools/Frameworks:** | Django, Flask, PostgreSQL, Redis, Docker, Celery, AWS, gdb |

## EXPERIENCE

**Rebecca Everlene Trust Company**                                                 New Jersey, USA
Software Engineer                                                                *Sep 2024 - Present*

- Led a team of 8 to automate the volunteer tracking system by integrating 10+ cloud-based SaaS platforms.
- Architected an ETL pipeline using AWS, increasing data accuracy, and **reducing processing time by 43%**.
- Owned end-to-end project delivery as the point of contact, managed developer onboarding, participated in high-level system design discussions.

**PeerXP Pvt. Ltd**                                                                Bangalore, India
Software Engineer                                                               *Nov 2020 - June 2022*

- Led development of SaaS product to support **500+ active users**. Rewrote GitLab premium features, offering the same functionality at **90% lower cost**.
- Built a custom GitLab CI/CD tool to automate build, test, and deployment workflows, collaborating with customer's engineering teams.
- Designed a **custom Git branch protection system** via Git hooks. Structured it as a state machine for flexibility, enabling seamless integration of new restriction policies.
- Took initiative to implement SSO solution using OAuth and Keycloak, and **streamlining onboarding from days to minutes for 500+ users.**
- Developed several internal tools boosting developer productivity by **40%**.
- Managed onboarding of developers, served as the main point of reference, and delegated tasks to them.

**Qzense Labs**                                                                    Bangalore, India
Software Engineer                                                               *Aug 2019 - June 2020*

- Achieved an accuracy of **95.2%** in predicting sugar content in fruits by training a linear regression model.
- Architected real-time ETL pipelines for IoT device data streams using MQTT protocol.

## EDUCATION

**New Jersey Institute of Technology**                                            **GPA: 3.97/4.00**
Master of Science - Computer Science

- Relevant Coursework: Data Structures & Algorithms, Advanced Database Systems, Operating Systems, Computer Networks

**JSS Academy of Technical Education**
Bachelor of Engineering - Computer Science & Engineering

## PROJECTS

**Custom Memory Allocator**

- Wrote malloc library in C to dynamically allocate memory on heap.

**Key-Value Database - github**

- Built a custom database in Go using slotted pages for efficient record storage.
- Implemented memory compaction algorithms to minimize fragmentation and optimize disk I/O operations.

**Log Structured Storage Engine - github**

- Developed a log-structured storage engine in Go, optimizing write-heavy workloads and improving data retrieval efficiency.
- Implemented in-memory append-only log for fast writes, along with SSTables for batched disk flushes.