

# ARJUN HANDLI

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## EXPERIENCE

### Software Engineer

ScanAvert LLC

New Jersey, USA

Feb 2024 - May 2024

- Optimized app to run seamlessly on low-end devices, **reducing storage footprint to under 6MB**.
- Achieved **90%** code coverage by integrating test suites and maintained code quality using Git Hooks.
- Collaborated with UI/UX designers to improve user experience of React Native application.

### Software Engineer

PeerXP Pvt. Ltd

Bangalore, India

Nov 2020 - June 2022

- Led the development of flagship SaaS product, architecting the backend infrastructure, designing database models, and implementing core functionality in **Django** and **Postgres**, resulting in a scalable and robust platform.
- Reduced deployment time by **70%** by implementing **one-click CI/CD solutions** with **custom Git Hooks** in Bash, streamlining the deployment process.
- Created an email service for personal convenience featuring rate limiting and message queueing, which reduced development time by **40%** and was ultimately sold to a customer.
- Took the initiative to integrate **OAuth** into applications, thereby enhancing security and **reducing onboarding from hours/days to minutes**, automatically enrolling **500+** members of the organization.
- Managed onboarding of developers, served as the main point of reference, and delegated tasks to them.

### Software Engineer

Qzense Labs

Bangalore, India

Aug 2019 - June 2020

- Achieved an accuracy of **95.2%** in predicting sugar content in fruits by training a linear regression model.
- Built an **MQTT** service to analyze sensor data from IoT devices. Developed a Django dashboard for comprehensive data visualization and device configuration updates.

## EDUCATION

### New Jersey Institute of Technology

Master of Science - Computer Science

Sep 2022 - May 2024

**GPA: 3.97/4.00**

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

### JSS Academy of Technical Education

Bachelor of Engineering - Computer Science & Engineering

Aug 2015 - July 2019

## PROJECTS

### Key-Value Database - [github](#)

April 2024 - May 2024

- Developed slotted pages in Go to store variable-length database records within fixed-size pages.
- Implemented memory compaction algorithms to minimize fragmentation and optimize disk I/O operations.

### Database Buffer Pool - [github](#)

March 2024 - May 2024

- Implemented an in-memory cache in Python to store database pages. Integrated an LRU eviction policy to efficiently swap pages from disk to memory.
- Tracks and flushes modified pages back to disk, ensuring data integrity and persistence, adhering to ACID properties.

### Ledger App - [github](#)

March 2024 - May 2024

- Built a Django backend for financial management, supporting transactions, account transfers, and audit logging.
- Increased system efficiency and automation by implementing Django Signals for internal process automation.

## SKILLS

**Programming:** Python, Go, C, Java, Typescript, Javascript, SQL, BASH

**Tools/Frameworks:** Django, Flask, Docker, Celery, PostgreSQL, Redis, GDB

**Misc:** AWS, DigitalOcean, Git, REST API, CI/CD