

# SAMYUKTHA WUYYURU

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## Career Objective

A curious Software Engineer with 2+ years of experience building scalable, efficient software solutions; driven to tackle new challenges, embrace steep learning curves, and deliver impactful innovation in a fast-paced, dynamic environment.

## Experience

### Software Engineer — Qued, Inc. — Virginia, USA

Aug 2024 – Present

- Built E2E Web and APIs-based solutions with Python, AWS Services, and REST APIs to automate appointment workflows.
- Migrated PostgreSQL queries to Prisma ORM, **improving query reliability by 25%** and streamlined backend development.
- Leveraged LLM-powered communication to automate critical workflows, **reducing manual response time by 60%**.
- Containerized microservices using Docker and **accelerated feature roll-outs by 20%**, increasing customer satisfaction.
- Automated cloud infrastructure provisioning with **Terraform** via CI/CD pipelines, ensuring consistent deployments.
- Acted as a developer & Scrum Master in a **customer-facing role**, driving development, sprint tracking, and collaboration.

### Software Developer Co-op — Astek Diagnostics, Inc. — Baltimore, MD, USA

Sep 2023 – Dec 2023

- **Boosted user retention by 10%** through reusable React components, ensuring consistent UI across the company portal.
- Implemented alerting systems, **reducing downtime by 30%**, to ensure rapid resolution of production issues consistently.
- Leveraged database polling and SFTP file transfers for batch data processing, **reducing data delivery latency by 40%**.
- Mentored junior team members, guiding them through technical challenges and best practices for software development.

### Software Development Intern — Astek Diagnostics, Inc. — Baltimore, MD, USA

Jun 2023 – Aug 2023

- Designed a real-time data processing pipeline for patient analytics with visual insights, **reducing processing time by 50%**.
- **Accelerated clinical insights by 30%** by creating ETL workflows to process and store large volumes of patient data.
- Engineered Python & shell scripts to automate job scheduling, configuration management, and infrastructure deployments.
- Collaborated with cross-functional teams to align feature development with the product vision and strategic business goals.

### Graduate Assistant — University of Maryland, Baltimore County — Baltimore, MD, USA

Jan 2023 – May 2024

- **Mentored 100+ students** and supported teaching core CS subjects, helping improve understanding and academic outcomes.
- Led lab sessions and office hours, graded coursework, and authored assessments to strengthen student problem solving skills.

### Software Development Engineer — Infosys Ltd. — Hyderabad, TS, India

Dec 2020 – Oct 2021

- Built REST/SOAP API integrations in Pega for payments and service activation, **reducing processing times by 40%**.
- **Improved data accessibility for Sales Team by 70%** by optimizing SQL queries with joins, indexing, and partitioning.
- Optimized backend workflows for subscription management and plan upgrades, **enhancing system stability by 15%**.
- **Reduced security incidents by 5%** by implementing OAuth 2.0 authentication and role-based user access control.
- Led code reviews and testing to ensure code quality while proactively contributing to development across diverse modules.

## Academic Projects

### Finances Application

[GitHub Link](#)

- Created an application for budgeting and expense tracking using **React, Node.js, and PostgreSQL**. Implemented role-based access control through Sessions and JWTs, **enabling scalable, multi-tiered access management** for small businesses.

### GoEmotions-using-BERT-and-ANN

[GitHub Link](#)

- Built an emotion classification model using the 58K-sample GoEmotions dataset by preprocessing text and applying NLP techniques. Experimented with LSTM, BERT, and ANN, **achieving 85% accuracy** on multi-label emotion detection.

## Education

### M.S. Computer Science — University of Maryland, Baltimore County, MD, USA

GPA: 3.7/4.0

Graduate Assistant, Maryland Technology Internship Program - Fall 23 Intern, Advanced Coursework, MyFeed Application

### B.Tech Electronics & Communication — KL University, Guntur, AP, India

GPA: 9.0/10

Peer Mentor – Data Structures, Chair - Student Body, Pega - Certified System Architect, Certified Senior System Architect

## Technologies

**Languages:** Python(Pandas, NumPy, PyTorch, scikit-learn, Selenium, psycopg2, Requests), Java, C, C++, SQL, HTML, Bash

**Web Development:** React, Node.js, REST APIs, JWT, Sessions, Gmail API, ChatGPT API, Webhooks

**Cloud & DevOps:** AWS (Lambda, S3, CloudWatch, API Gateway, ECS, DynamoDB, IAM), Terraform, Docker, Boto3

**Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB

**Tools & IDEs:** Git, GitHub, Postman, VSCode, PyCharm