Pragnavi Ravuluri Sai Durga

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EDUCATION

New York University — **New York, NY**
MS in Computer Science & Engineering (GPA: 3.933) — *Graduation Date: May 2024*
- Computer Vision, Machine Learning, Deep Learning, Robotics, Artificial Intelligence, Big Data Analytics, Operating Systems

Amrita Vishwa Vidyapeetham — **Kerala, India**
BTech in Computer Science & Engineering (GPA: 3.49) — *Graduation Date: May 2019*
- Object-Oriented Programming, Data Structures & Algorithms, Statistics, Data Science, Mathematics, Database Management

WORK EXPERIENCE

New York University - Department of Computer Science — **New York, NY**
Teaching Assistant — *September 2023 - May 2024*
- Supervised 5 TAs and optimized grading for 150+ students. Led weekly coding sessions and mentored projects. Achieved 98% satisfaction, improved grades by 30%, and increased project success rates by 10%, reducing grading turnaround time by 50%.

Bosch Global Software Technologies Pvt. Ltd. — **Bengaluru, India**
Software Engineer — *August 2019 - July 2022*
- Developed and maintained the Microsoft Intune Staging Tool in C#.NET, automating software staging on 500+ cloud-managed devices at Bosch, reducing staging time by 40%.
- Implemented CI/CD pipelines using Azure DevOps and YAML, reducing build times by 50% and increasing deployment frequency by 35%, while enhancing overall system reliability and scalability by 25%.
- Engineered API-based data handling to automate software staging, eliminating manual errors across 300+ deployments.
- Overhauled global asset management with PowerShell scripts, reducing memory management and processing time by 60% and affecting over 200,000 asset entries monthly.
- Built a Python-based tool with multithreading and concurrency to streamline package assignments, reducing processing times from 6 hours to 32 minutes on 200,000+ client machines throughout the organization.

LEADERSHIP & PROJECT MANAGEMENT EXPERIENCE

Bosch Global Software Technologies Pvt. Ltd. — **Bengaluru, India**
Team Lead - IT Automation Team — *August 2019 - July 2022*
- Led the automation team, conducted code reviews and mentored three interns at Bosch, achieving a 100% conversion rate to full-time software engineers and improving team productivity by 30%.

Live-in-Labs (Amrita Vishwa Vidyapeetham) — **Kerala, India**
Research Team Lead — *May 2017 – May 2019*
- Principal author of "Simple and Coverage Path Planning for Robots: A Survey," published in Lecture Notes in Networks and Systems, Springer 2020.
- Led an end-to-end project developing an in-house automatic lecture recording software using PyQt5 and FFmpeg, achieving a 40% decrease in student failure rates in a remote Indian village.

CERTIFICATIONS

- DO120 - Introduction to Red Hat OpenShift Service on AWS (ROSA)
- DO121 - Introduction to Microsoft Azure Red Hat OpenShift

SKILLS & INTERESTS

Tools & Languages: Terraform, Python, C, Java, C++, C#, Scala, SQL, Visual Studio Code, Bash, PowerShell, R

Web & Mobile App Development: MySQL, PostgreSQL, MongoDB, SQLite, HTML, CSS, Bootstrap, React, Angular, Node.js, Flask, JQuery, Java Servlets, JavaScript, PHP, iOS, SDK, XCode, Swift, UIkit, Objective-C, RESTful APIs, Swift UI

Miscellaneous: Selenium, Docker, Power BI, Postman, Agile Framework, Microsoft Windows, GCC Compiler, Linux, Ubuntu, Unity, XML, YAML, Azure, AWS, Intune, SCCM, Pandas, Numpy, OpenCV, Version Control System, Github

Honors: Best Employee, Best Woman Debutant, Award for Innovative Thinking, Codepath Outstanding iOS Software Engineer

Projects

SafePath: Enhancing Google Maps for Pedestrian Safety in NYC — *September 2023 - December 2023*
- Implemented a Flask and PySpark enhancement for Google Maps with a React frontend, analyzing over 2 million NYPD arrest data points to identify safe routes, boosting user engagement by 40% and risk assessment accuracy by 30%.

Enhancing Speech Recognition with Bidirectional LSTM and MFCCs on Audio MNIST Dataset — *January 2023 - May 2023*
- Developed a PyTorch-based LSTM and Bidirectional LSTM model utilizing Mel-Frequency Cepstral Coefficients (MFCCs) for speech recognition on the Audio MNIST dataset, achieving average test accuracies of 99.55% and 99.73% respectively.

CourierX: Digitized University Courier Management System — *January 2019 - May 2019*
- Engineered and implemented a highly efficient university courier management system using HTML/CSS, Java Servlets, JSP, JDBC, and MongoDB. Streamlined process, reducing manual effort by 70% and optimizing operational efficiency.