Lakshmi Palaparthi

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Inquisitive, energetic computer engineer skilled in leadership, client management, programming logic and languages, cross-platform software, and mathematics. Seeking to leverage software development skills with an emphasis on collaboration, communication, passion, client relationship, and creativity in software engineering and product management.

EXPERIENCES

IQVIA, Plymouth Meeting, PA   June 2019 – February 2020
Software Engineering Intern
- Delivered an **NLP** solution in **Scala** to extract ICD9/ICD10 codes, patient age, patient gender, and a study range from free text.
- Developed and implemented a **python** based chatbot for customers to interact with the existing system easily and effectively by extracting relevant data using training models and data hierarchies.
- Deployed on **Jenkins** using **Docker** to increase accessibility.
- Improved project efficiency and productivity by **100%** using an **agile methodology (Kanban)**.

Genista Biosciences Inc, San Jose, CA   June 2016 - August 2016
Summer Intern
- **Automated liquid handler pipetting technique** through design and development of batch processes.
- Integrated custom inventory management with LIMS and **tracked customer samples** towards the life of the sample.
- Increased accuracy and completeness by **auditing on-line client applications/forms**.
- Successfully **maintained client sample information** in a methodical fashion through prescribed databases, activity logs/reports, and validation of documentation to increase productivity.

AccuCentrix Inc, Plymouth Meeting, PA   June 2015 - August 2015
Summer Intern
- Managed data entry tasks and maintained an orderly filing system, office supply stocktaking, and attended telephone over a **3-month period.**
- **Enhanced productivity by managing and organizing customer/consultant data** and related information.
- Research and compile requested IT consulting data for support.

Vertically Integrated Project Research- Grid Integrated Vehicles   February 2018 – May 2018
Firmware Research Assistant
- **Collaboratively developed a ping pong game in VHDL** with a tutorial for students to reference and **increase accessibility of course material**.
- Advanced VHDL/debugging skills by interacting with the existing system.
- Developed an understanding of HDMI/DVI protocols to **implement effective data transmission** using the pong game.

ACADEMIC PROJECTS

Blue Path: Augmented reality navigation app using ARCore   **September 2018 – May 2019**

- **Developed an augmented reality Android Java app** to navigate customers to the closest security blue light on UD's campus with respect to the user's location through geolocation coordinates.
- Integrated Google's ARCore to **detect surface/motion and place a virtual tag** that provides insight for other customers.
- **Accurately guide customers to destination** according to the phone's orientation, Google maps navigation API, and other app functionalities (compass, gyroscope, accelerometer, and camera).

Robot Olympics Microprocessor   **February 2016 – May 2016**
- **Developed a PIC32 MX7 microprocessor robot in C** to follow a black tape course precisely **(won first place in the class competition).**
- Designed the architecture via flowcharts and actionable insights to implement the functionality of the robot.
- **Built the robot from scratch within 3 months** with wheels and a base to support the microprocessor, connected servos, IR sensors, LED/SSD Pmods, microphone, and timers to move and control the microprocessor to follow a black line/course.

EDUCATION

M.S. in Computer Engineering, University of Delaware, DE   **May 2020**
B.S. in Computer Engineering, University of Delaware, DE   **May 2019**

Cumulative Graduate GPA: 3.83/4.0   5yrs on University of Delaware Deans List
Eta Kappa Nu Engineering Honor Society   4+1, Dual Degree Program

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, Scala, MATLAB, C, Assembly, VHDL, HTML5, CSS
Tools and Technologies: Linux, MySQL, NLP, ReactJs, Docker, AWS, Jenkins, Windows, VMware, Git, GCP, Spacy, PHP, STTP, Finch/Finagle Webservice, WinSCP, Cygwin64, Postman, MongoDB
Operating Systems: Windows 7/8/10, Ubuntu, MacOS
Software Engineering Methodology: Agile(Kanban)

ADDITIONAL SKILLS

University of Delaware Zumba Club   **August 2018 – May 2020**
Certified Zumba B1 Instructor
- Lead an exercise dance class for **60 minutes twice/week** by choreographing a variety of dances to teach the students.
- Motivate and encourage a group of around **20 students each class** to dance and have a good time.
- **Created a YouTube channel** with dances for students to reference and practice with.