Aarya Atluri

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EDUCATION

The University of Texas at Austin — Austin, TX
Bachelor of Science in Electrical and Computer Engineering, Software Engineering Track — *Aug. 2020 – Dec. 2023*
- Relevant Coursework: Software Engineering & Design Lab, Software Design and Implementation I & II, Algorithms, Operating Systems, Embedded Systems, Discrete Math, Digital Logic and Design, Software Architectures

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Ruby, Assembly, C#, JavaScript, HTML/CSS
Frameworks/Libraries: OpenCV, Flask, PyTorch, Firebase, TensorFlow, Spring, Django, Ruby on Rails
Developer Tools: AWS, Docker, MongoDB, Heroku, Azure, Kubernetes, Android Studio, JIRA, Confluence, Git

EXPERIENCE

NVIDIA — May 2022 – Aug. 2022
Incoming Software Engineer Intern — *Santa Clara, CA*
- Android Platform Team

AMD — Aug. 2021 – Dec. 2021
Embedded Software Engineer Intern — *Santa Clara, CA*
- Develop **OpenBMC** firmware releases for customer reference boards **increasing firmware usage by 12%** and driving a **18% increase in efficiency** for AMD data centers supported by **Onyx** and **Quartz** workstation machines
- Prepare new features for BMC firmware and utilize **cross-compilers** to port OpenBMC for Linux users
- Reduced server-side memory usage for Cloud Service Providers through leveraging **modern APIs and libraries** to overhaul legacy components
- Program a firmware update and BIOS verification software with **Redfish API** deployed to **85% of Xilinx** servers

Sock Club — May 2021 - Aug. 2021
Software Engineer Intern — *Austin, TX*
- Employ **graph embedding** with the **Node2Vec algorithm** to create a KeyWord generation tool for search engine optimization for the marketing department to **reduce Ad-Sense keyword costs by** ∼**19%**
- Engineer a **Natural Language Processing** Model using **OpenAI's GPT-3 API** to generate SEO Content to gain traction through Google's backlink ranking system resulting in an increase of ∼**3700 clicks per day**
- Integrated a streamlined product design tool **API** utilized by the operations team to **automate** design uploads to **PostgreSQL**, saving designers ∼**4,500 hours a year**
- Maintain and develop Sock Club's **Ruby on Rails** website **infrastructure** and overhauled internal order processing and tooling page shortening overall turnaround time to manufacturers by **15%**

NASA — May. 2020 – Aug. 2020
Software Engineer Intern — *Houston, TX*
- Collaborate with Masters students and engineers to research and develop an interruptible **WFD(Wave Frontier Detector) Algorithm** for use in autonomous semantic mapping and navigation
- Implement a novel camera calibration algorithm for a network of **Azure Kinect Cameras** with future application in body tracking and motion prediction

PROJECTS

</> Iverson Model | *Python, Azure, Firebase, PostgreSQL, Git* — Feb. 2021 – May 2021
- Train and develop a betting odds determining Machine Learning model based on 18.9k basketball statistics, using Azure Data Classification Tool
- Deploy a program to utilize model to estimate outcomes to every match and statistical over/under betting odds for the next year and estimated 11% greater odds of return when compared to Vegas odds

</> DisCollectibles | *Discord API, Python, Flask, Heroku, MongoDB* — March 2020 – May 2021
- Discord application utilizing a centralized database storing user statistics and enabling a user marketplace with the purpose of increasing user interaction in various communities
- Launch an application in 100+ communities to track user statistics and allow moderators to enable growth and engagement