AKHIL ARUN

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EDUCATION

University of Southern California | 2021 – May 2022

Master of Science, Computer Science GPA: **4.0**

Relevant Coursework: Database Systems, Analysis of Algorithms, Web Technologies, Information Retrieval, Multimedia Systems Design

University of Southern California | 2018 – May 2022

Bachelor of Science, Computer Science (USC Presidential Scholar) GPA: **3.90,** Summa Cum Laude

Relevant Coursework: Data Structures & Object Oriented Design, Algorithms & Theory of Computing, Software Engineering, Programming Graphical User Interfaces, Compiler Development, Discrete Methods, Linear Algebra and Linear Differential Equations, Probability & Statistics for Computer Science, Full-Stack Web Development

EXPERIENCE

Amazon AWS | Software Development Engineer Intern: Summer 2021

- Intern in AWS Lightsail Control Plane team
- Built an internal website to approve customer resource limit increase requests by synthesizing customer account information across different services. This information includes current instance quotas, usage, billing history, and fraud data
- Reduced time to handle ticket by 80 percent
- Implemented frontend with React and backend with Java

Google | Software Engineering Intern: Summer 2020

- Analyzed quality and encoding metrics of the YouTube UGC dataset across different encoding optimizers and codecs using Python
- Improved functionality of video benchmarking tool to account for different encoding optimizers

Google | Technical Program Manager Intern: Summer 2019

- Designed, implemented, and launched application to streamline and expedite project approvals
- Time to project approval reduced from weeks to days
- Built UI using Google App Maker and CSS, backend with Javascript, Cloud SQL and App Engine

PROJECTS

- Combining Unsupervised and Supervised Deep Learning to Improve Liver and Lesion Segmentation. Completed in the Stanford Laboratory of Quantitative Imaging.
- A Machine Learning Based Approach to Skin Lesion Segmentation Using Superpixels. Recognized as a Siemens Semifinalist for this project.
- Built a platform for users to communicate on popular ideas. Implemented with React, Snap Kit, and Firebase.

HONORS AND AWARDS

- SAT 1570/1600
- National Semifinalist in Siemens Competition for Math, Science and Technology
- USA Computing Olympiad (USACO) Gold
- Tau Beta Pi
- Best use of Snap Kit, SBHacks
- National Merit Finalist
- National AP Scholar