Arjun Srinivasan

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Education - University of California, Berkeley (B.A. Computer Science) - May 2020

Programming Languages/Platforms - C++, C, Java, Python, JavaScript, SQL Firebase, AWS

Coursework

CS 61A - Structure and Interpretation of Computer Programs	CS 61B - Data Structures
CS 61C - Computer Architecture	CS 70 - Discrete Mathematics and Probability Theory
Math 53 - Multivariable Calculus	Math 54 - Linear Algebra and Differential Equations

Work Experience

Cuddle Cub - Chief Technology Officer *Sept 2016-Present*
Startup developing a toy teddy bear product for children to help build consistent sleep patterns and track their sleep every night

- Built and developed a hardware prototype using Arduinos components and released Minimum Viable Product (MVP)
- Wrote all of the backend software for the prototype that handled Bluetooth reception and transmission, sensor input analysis and fusion, and the database software for the iOS app
- Developed an algorithm that parses accelerometer data to calculate amount of sleep a child has had during the night

Lockheed Martin - Intern *June-Aug 2016/2017*

- Developed a multi-layered neural network (with 80% accuracy) that analyzed cable drawings, and associated parts list to determine cost of cable production.
- Used and applied VBA code and macros in Microsoft Excel to generate spreadsheets to automate manufacturing tasks. Improved manufacturing process efficiency by 10%
- Automated the collection & analysis of manufacturing data sets to provide supervisors with dashboards for management of production schedules & plant efficiency

Berkeley Anova - Technology Committee Member *Aug 2016-Present*
Non-profit club that teaches Computer Science to high school students in the bay area

- Taught JavaScript and Java to Berkeley high schoolers and helped debug student programs
- Developed and created interactive lesson plans for students with sample JavaScript and Java programs for each lesson
- Wrote test questions for students, evaluated student submissions, and explained optimal solutions to problems
- Redesigned club website using JavaScript, HTML and CSS

Charter Schools: Web-Scraping and Text Analysis *Aug 2017-Present*
Undergraduate research apprentice to Professor Heather Haveman and PhD candidate Jaren Haber

- Developed a spider program that scoured over 1,000 websites and retrieved the text from over 95% of all links visited compared to 50% success rate seen with the older version
- Built algorithms to help parse the text retrieved from websites, filtering the text to find each school's mission statement