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Abhinav Arya

abhiarya.me
github.com/9recur

Education

University of California, Berkeley — **Class of 2022**

- B.S., Electrical Engineering and Computer Science (EECS).
- Technical Coursework: CS61A/B, EE16A/B, Math53, Physics 7B.

Bellarmine College Prep — **Class of 2018**

- High School Diploma. GPA: 4.0 UW, 4.66 W. CS Coursework: AP Computer Science, Adv CS Data Structures

Skills

- Java, Python, Swift, C++, HTML/CSS, JavaScript, Node.JS, Lisp, F#
- ML/AI, Linux, Hadoop, MapReduce, NumPy, SQL, Git, Google Analytics, Android Studio, XCode

Experience

Research Intern — **NASA Ames Research Center** — **Fall 2018 to Spring 2019**

- Helping develop an automated decision support framework (SHERPA) for planetary exploration missions
- Solving Partially Observable Markov Decision Processes using Julia to expand SHERPA's functionality

Research Intern — **Naval Postgraduate School** — **Summer 2017**

- Applied distributed computing to help the U.S. Navy pinpoint cybersecurity threats.
- Designed a MapReduce algorithm to parallel process event log data across a network of Hadoop DataNodes.
- *Research published in CHIPS, the U.S. Navy's information technology magazine*: http://www.doncio.navy.mil/CHIPS/ArticleDetails.aspx?ID=9967

Software Engineering Intern — **Qolsys** — **Spring 2017**

- Developed an application in Java that monitors data measurements retrieved from radio sensors onboard the Qolsys IQ Panel 2, ensuring Qolsys radio devices comply with industry regulations.
- Created software that analyzes Tx Linearizer (transmission power in dBm) and LNA Offset (low-noise electronic amplification) measurements of 6 LTE frequency bands.

Web Analytics Intern — **Benetech** — **Summer 2016**

- Managed and analyzed usage of Bookshare.org, an accessible online library with over 400,000 users.
- Gathered and interpreted website analytics to improve UI/UX.
- Improved internal database by replacing outdated EPUB files and updating metadata of 200+ books.

Honors and Activities

- **SocialGoals** (April 2019): Deployed a web app to allow users to share their personal goals and view/upvote friends' goals. Used Node.JS and Firebase for real-time updates. *Conceived at LA Hacks 2019.* (JavaScript)
- **Analytics and Data Summit 2019 Speaker** (Mar 2019): Presented to industry professionals at the Oracle Headquarters on the application of my Java MapReduce algorithm and a neural network to analyze and classify sonar metadata collected from Naval UUV recon missions.
- **Breakthrough Silicon Valley Teaching Fellow** (July 2018): Prepared low-income students to succeed in high school by designing and teaching curriculum centered on academic resources, mental health, study skills, college admission requirements, etc.
- **Google CSSI-Coursera Program** (July/Aug 2018): Developed a recommendation engine that employs collaborative filtering to provide users with customized movie recommendations. Project completed as part of an online program run by the Google Student Development team. (Java)
- **Grub Club** (Sept 2017): iOS app that employs geolocation and AI to suggest restaurants to eat at with a group of friends. *Winner at HackMerced 2017F.* (Swift)