Arnav Khinvasara

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EDUCATION

University of California, Berkeley   Cumulative GPA: 4.0/4.0
BS in Electrical Engineering and Computer Sciences, Minor in Math   *Expected Graduation: May 2027*

Relevant Courses: Structure and Interpretation of Computer Programs, Designing Information Devices and Systems, Data Structures and Algorithms

RELEVANT PROFESSIONAL EXPERIENCE

Software Engineering Intern   Aug 2022 – Feb 2024
Vocus Labs   *Cupertino, CA*

- Used Python's Matplotlib, Pandas, and Numpy libraries to analyze over **200,000** milliseconds of brain signals in **5+** channels from about **50** service members
- Researched FFT and applied the algorithm to determine active frequencies in the brain signals in order to evaluate service member mental states and promote their safety
- Used React JS to create a web-app for **2** clients to design computer chips, which is used by **3** teams

Summer Software Engineering Intern   Jun 2022 – Aug 2022
Cognixion   *Palo Alto, CA*

- Researched NLP techniques such as hidden Markov models and RNNs to enable efficient auto-fill functionality for **25+** disabled individuals
- Utilized Flask to develop a web-app to display the functionality and its stats for the **25+** users (in addition to **2+** teams)
- Converted the website into an AR tool using AR.js for **40+** users to drastically improve real-time, context-sensitive input assistance

PROJECTS

College Screen Time Betting | *React Native, Swift, Git, REST APIs, Firebase*   Oct 2024 – Present
  * Developing **2** versions of a mobile app, one using React Native and one using Swift. Incorporating Firebase for data storage and REST APIs for information collection
  * Creating the mobile app for college students to bet on each other's screen time in order to make money while being more productive
  * Access to potential user base of **45,000** students (just from Berkeley)

HS Course Matcher | *PHP, MySQL, Apache, Full-stack, HTML/CSS, Git*   Feb 2022 – Mar 2022
  * Developed a full-stack web application using PHP and MySQL in the backend and HTML/CSS in the frontend
  * Created the site for students at my school to compare class schedules with their friends, see people in their classes, and make new friends
  * Obtained **100+** users and expanded to **5** high schools

Job/Internship Finder | *PHP, MySQL, Apache, Full-stack, HTML/CSS, Git*   Oct 2020 – Nov 2020
  * Developed a full-stack web application using PHP and MySQL in the backend (Apache server) and HTML/CSS in the frontend
  * Created the site for high schoolers to find jobs and internship opportunities near them based on their interests and skills
  * Obtained **50+** users across **5+** schools

TECHNICAL SKILLS

Languages: Python, Javascript, PHP, Java, SQL, HTML/CSS
Frameworks: React.js, React Native, Node.js, Flask, MySQL, OpenCV, TensorFlow, PyTorch
Developer Tools: Git, Postman, Visual Studio, Sublime Text, Android Studio, Eclipse, NoSQL, npm, pip, AWS, Azure
Other/General: data engineer, Ruby, product analytics