AKSHAT JAIN

Software Engineer

EDUCATION

University of California, Berkeley

Bachelors of Arts in Computer Science, May 2022

CORE STRENGTHS

Languages: Java, Python, HTML, CSS, JavaScript, Node.JS, AngularJS, React,JS, Express.JS, MongoDB, React Native, MySQL, SQL, PHP, VB.NET (MVC), C++

Technologies: Git, Jira (Agile Methodology), Android Studio, Visual Studios, Firebase, PID, OpenCV, Raspberry Pi, Bootstrap

Interpersonal: Team-Focused, Collaborative, Organizational Leader, Punctual, Optimistic

AWARDS & HONORS

- Capital One Company Challenge Winner | HackRice 9 | 2019
- Most Valuable Programmer | Steel Talon Robotics | 2019
- 1st Place (State Competition) | FIRST Robotics Texas Competition | 2018
- 1st Place (Written), 2nd Place (Programming) | UIL Computer Science Texas Competetive Programming Competition | 2018
- 2 time Google Code-In Participant | 2017, 2018
- 1st Place | Regional Scarecrow Contest | 2018
- National AP Scholar | Collegeboard | 2018

CONTACT DETAILS:

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EMPLOYMENT HISTORY

React Native Lead Developer

BERKELEY MOBILE — **SEPT. 2019 - PRESENT**

- Updating the codebase of this official campus mobile application to the React Native language to take advantage of its cross-platform compatability and modern design elements.
- Leading the redesign and implementation efforts, focusing on feedback as provided by user research and usability testing.

Software Engineering Intern

WYMBO, INC. — **SEPT. 2019 - PRESENT**

- Introduced user-specific dynamic elements by utilizing stateful, reusable React components in both iOS and Android platforms.
- Solved Firebase and Live Reload dependency issues in the Android version leading to the completion of a successful initial release.

Student Instructor

JUNI LEARNING — **AUG. 2019 - PRESENT**

- Instructed 10 students of all levels utilizing a participative teaching strategy a full course on basic Python programming and advanced algorithms.
- Made curriculum suggestions and improvements leading to the addition of 3 new supplemental projects, enhancing the quality of teaching materials.

Software Engineering Intern

HEWLETT PACKARD ENTERPRISE — **JUN. 2018 - AUG 2019**

- Utilized Node.JS/jQuery to integrate data analysis reports to an internal DevOps tool which provided developers a 250% faster way to access security vulnerabilities affecting their products.
- Analyzed LDAP employee database schema to develop a "customer profile report" with Node.JS which provided integral information on various Business Unit use of an internal application and thus, gathered additional funding.
- Created a CRUD desktop GUI with Python (Tkinter) to manage sensitive product data and wrote a script to automate it's data cleansing, saving 2 hr/week of tedious manual labor.

CEO/Founder

BITSNBYTES TUTORIALS — **JUN. 2017 - JAN 2019**

- Gathered over 120 students over the duration of 1.5 years to participate in a Java Bootcamp by conducting market research and direct marketing.
- Taught Java Bootcamp, instructing students upon the fundamentals and application theory of Java.
- Developed, designed and published a comprehensive web interface in PHP and MySQL to improve student-teacher interaction and facilitate grading and online assignment submission.

EXTRACURRICULAR ACTIVITY

Senior Software Engineer

STEEL TALON ROBOTICS — **SEPT. 2016 - MAY 2019**

- Collaborated with team to develop autonomous pathing with motion planning algorithms, facilitating motion following via magnetic encoders with Java.
- Researched and implemented advanced vision processing techniques such as horizontal distance/angle calculation to follow vision targets in Python with OpenCV, running on Raspberry Pi. This enabled auto-scoring which played an integral part in helping the team reach the World Competition.

RESEARCH

Effects of Autonomous Vehicles on Contemporary American Society

COLLEGEBOARD — **APR. 2018**

- Uncovered the technological productivity and effeciency of the auto industry
- Criticized validity of core technologies such as shared network V2V signals
- Explored insurmountable complexity of modern PID control algorithms