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Peter Qiu

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EDUCATION

B.S. – Electrical Engineering & Computer Science	University of California, Berkeley *Regent's Scholar: Top 2% of Class* **GPA: 3.8**	May 2019

Relevant coursework: Algorithms, Data Structures, Artificial Intelligence, Computer Architecture, Linear Algebra, Multivariable Calculus, Discrete Math and Probability Theory, Internet Architecture and Protocols (current), Databases (current), Signals and Systems (current).

EXPERIENCE

Software Engineering Intern   **PayPal**   **May 2017 – August 2017**

- Built a notifications system that monitored API activity and PayPal services for an analytics web application.
- Created responsive pages and data visualizations using Redux and Kraken on the front-end.
- Implemented mid-tier and back-end RESTful services using Node.js and Spring, creating and connecting to internal monitoring tools.
- Enforced 100% test coverage across all components and services built (Enzyme, Mocha, Istanbul).

Software Engineering Intern   **Jabil Circuits**   **May 2016 – August 2016**

- Improved experiment consistency and saved over $10,000 by building a cleanroom sensor suite (Arduino).
- Reduced time taken to climate control laboratories by creating a real-time data dashboard and connecting it to the sensors (MongoDB, Express, React, Heroku).

VP of Technology   **UC Berkeley Innovative Design**   **September 2016 – Present**

- Leading client-requested web projects for both on and off campus organizations (innovativedesign.club).
- Improving and expanding club's online presence by creating websites for events, learning from industry professionals, and teaching web development.

Project Developer   *The Daily Californian*   **September 2016 – May 2017**

- Extracted datasets from various mediums through web scraping and OCR (BeautifulSoup, Tesseract).
- Performed data filtering, geocoding, analysis, and visualization in the spirit of data-driven journalism for tens of thousands of readers (Python, D3).

PROJECTS

- **Spark DCT:** Performed image quantization and DCT compression with Spark, OpenCV, and Numpy.
- **Jarvis:** A "personal assistant" built with Python that displays weather, performs voice-activated Google searches, and pulls stock info.
- **OpenDiscourse (CalHacks 3.0):** A web application that provides a debate platform for a given topic and generates a shareable link to it, built with the MERN stack.
- **Text Editor:** A fully functional text editor built with Java, adhering to TDD with JUnit. Implemented and utilized multiple data structures to work within time and space constraints.
- **Bear Maps:** Parsed OSM data, applied A* pathfinding, added support for HTTP endpoints, and used quadtrees to create a navigable map of Berkeley in Java.

SKILLS

Languages: Javascript, Python, Java, NetLogo, C, Scheme.	**Libraries, Frameworks:** Express, React, Redux, Enzyme, Mocha, D3, Spring, jQuery, OpenCV3, Spark, Numpy.	**Other:** Git, JUnit, Maven, MongoDB, Postman, PostgreSQL, Jenkins, Webpack, AWS, Heroku.