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Peter Qiu

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EDUCATION

B.S. – Electrical Engineering & Computer Science	**University of California, Berkeley** *Regent's Scholar | HKN*	**May 2019**

GPA: 3.8

Coursework: Algorithms, Data Structures, Artificial Intelligence, Computer Architecture, Linear Algebra, Multivariable Calculus, Discrete Math and Probability Theory, Internet Architecture and Protocols, Databases, Machine Learning, Optimization Models, Security (current), OS (current), Intro to Guitar (instructor).

EXPERIENCE

Software Engineering Intern   **Facebook**   **May 2018 – Aug. 2018**

- Increased Messenger suggestions engagement by implementing suggestion bar persistence and filtering.
- Significantly boosted user interaction by developing a new location experience in Messenger, allowing users to send static locations, search nearby locations, or share their live location.
- Improved Messenger's reminders experience by increasing personalization.
- Developed mainly for iOS while building out corresponding back-end services in Hack.

Software Engineering Intern   **PayPal**   **May 2017 – Aug. 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, Kraken, and Highcharts 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 – Aug. 2016**

- Improved laboratory experiment consistency by building an Arduino powered sensor and actuator network.
- Reduced time taken to climate control laboratories by creating a real-time data dashboard and connecting it to the network (MongoDB, Express, React, Heroku).

VP of Technology   **UC Berkeley Innovative Design**   **Sept. 2016 – Dec. 2017**

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

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.
- **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, Objective-C, Hack/PHP, Java, Scheme.	**Libraries, Frameworks:** Express, React, ComponentKit, Redux, Mocha, D3, Spring, OpenCV3, Spark, Numpy.	**Other:** Git, MongoDB, GraphQL, Postman, PostgreSQL, Jenkins, Webpack, AWS, Heroku, JUnit, Maven.