Yuhaw Richard Su

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Experience

Engineering Resident – Google   Anticipated Start Date – September 2017
- Will be completing two technical rotations on different teams
- May qualify for full-time hire upon completion of the residency

Software Engineering Intern – *HealthTech Solutions*   June 2017 – September 2017
- Created an admin portal with React to manage users and messages
- Initiated and executed all Android releases of the *TXP Chat™* application
- Contributed features to the main product that helped garner $325,000 in funding

Research Assistant, Teaching Assistant – *The University of Iowa*   February 2015 – May 2017
- Developed tools and functionality for use in 3D medical image pre-processing
- Instructed 130 students in a course that taught advanced programming fundamentals

Software Developer Intern – Epic   May 2016 – August 2016
- Implemented a service to help patients better adhere to complex medication schedules

Education

The University of Iowa – Iowa City, IA   August 2013 – May 2017
- BSE Electrical Engineering with Software Engineering Focus   GPA – 3.68/4.00
- BA Computer Science   Honors
- BA Music
- Mathematics minor

Projects

PySNAC – *Secure Network Audio Communication in Python*   January 2017 – May 2017
- Developed a pair of devices that communicate via strong end-to-end encryption over Wi-Fi
- Implemented data compression with Opus to minimize delay to less than 200ms

SafeSpace – *Second Place Overall, Hack Harassment Award*   HackISU Spring 2017
- Enhanced a Chrome extension to block customizable content while browsing
- Applied several variants of each filter to reduce the number of false negatives

The Med Manager – *Best Health Communication Hack*   ArchHacks 2016
- Led the development of an Alexa skill to manage complex medication schedules
- Designed and implemented a flexible audio UI to add, modify, and take medications

3D Image De-noiser – *Best Undergrad Poster in Bioimaging*   UI Research Open House 2016
- Efficiently implemented the TV-L1 primal-dual algorithm to de-noise images up to 52% faster

Skills

Languages* – Java, JavaScript, Python, C++, C, SQL, Scala, Swift   *in order of proficiency

Technologies – Alexa, Node.js, React + Redux, iOS, Android, Github, ITK

Involvement

Co-founder – Iowa Hacker's Club   September 2016 – May 2016
- Started University of Iowa's first official student organization to promote hackathons
- Recruited, organized transportation for, and mentored novice hackers for 6 hackathons

Analytics Chair – UI Dance Marathon 23   August 2015 – April 2017
- Tracked event and financial data for a philanthropy supporting pediatric cancer patients
- Supplied metrics to help the group raise over $2.5 million within a year