

ELLEN YUAN

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inyuan.github.io

EXPERIENCE

Software Engineer @ **Google**

September 2019 – Present

- Web Frameworks team

Security Engineer @ **PayPal**

July 2017 – August 2019

- Wrote daemons to continuously run security vulnerability scans on code diffs for pull requests
- Created a ranking model using pandas to weigh all security metrics and produce an output score
- Implemented A/B testing for developer communications and analyzed the results to drive content
- Designed notification system to alert developers on insecure code usage in dynamic intervals

Application Security Engineer Intern @ **PayPal**

May 2016 – August 2016

- Created monitoring graphs to measure the effectiveness of the application defense system
- Implemented a real-time email alerting system to detect automated attacks earlier
- Collaborated with mobile teams to integrate security flows within the mobile application

Security Consultant Intern @ **Bank of America**

June 2015 – August 2015

- Responsible for security consulting and remediation of Consumer Banking applications
- Facilitated direct partnership with security teams to ensure compliance with application security
- Developed a security engagement model to identify and track security risks and projects

Computer Science Research Assistant @ **Duke University**

May 2014 – May 2015

- Researched ways to integrate computing into middle school disciplines, specifically in math
- Hosted Alice workshops for K-12 teachers and students to assess computational thinking
- Presented work at the Visible Thinking showcase held at Duke University

EDUCATION

Duke University

August 2013 – May 2017

B.S. Majors in **Computer Science** with Distinction and **Statistical Science**

- Relevant Courses: Data Structures, Computer Architecture, Operating Systems, Algorithms, Biostatistics, Probability, Regression Analysis, Survey Design, Statistical Inference, Optimization Algorithms in Operational Research, Bayesian Statistics

SKILLS

Python, Java, JavaScript, Bash, C, HTML, CSS, R, MySQL

ACTIVITIES

Mentor @ **MAGIC**

October 2018 – May 2019

Clinician @ **US Youth Volleyball League**

August 2018 – November 2018

Volunteer @ **FEMMES at Duke University**

August 2014 – May 2017