

# ELLEN YUAN

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[ellenyuan.github.io](https://ellenyuan.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