

Nicholas P. Ward

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EDUCATION

University of California, Berkeley Class of 2018

B.A. Mathematics and Computer Science (double major)

GPA to date: 4.00

Dual enrollment: college/university coursework during high school (33 credits; GPA 4.00)

EXPERIENCE

Summer 2016 Google, Mountain View, CA

Software Engineering Intern, Build and Test Infrastructure for Android Chrome

Spring 2017 UC Berkeley

Research Assistant (Undergraduate Research Apprenticeship Program)

- worked with Professor Carlo Séquin on gradient descent algorithms for computational modeling

2015 — 2017 UC Berkeley

Undergraduate Student Instructor

- classes: CS 61A (Intro to CS), CS 70 (Discrete Math/Probability), CS 170 (Efficient Algorithms)
- teach weekly discussion sections and hold office hours; grade exams and projects

Reader (Grader/Tutor), CS 70 (Discrete Mathematics and Probability Theory)

Mentor (Computer Science Mentors), CS 70; Junior Mentor, CS 61A; Lab Assistant, CS 61A

Summer 2016 Google, Seattle, WA

Software Engineering Intern, Google Cloud (BigQuery)

- improved the web UI for BigQuery, a tool for fast Big Data processing, adding several features
- project summary: nward.co/bigquery

Summer 2015 iD Tech Camps, Berkeley location

Instructor, Intro to Game Programming (Python); Intro to Programming (Scratch and JavaScript)

Summer 2014 Sandia National Laboratories, Livermore, CA

Programming Intern, Center for Cyber Defenders

- Harrow forensic-analysis LiveCD project (Python programming for malware analysis system)
- iOS Clone Detection project (Python programming for exploratory research)
 - accepted for presentation at 23rd USENIX Security Symposium, August 2014

OTHER

Relevant Coursework (UC Berkeley)

- ◆ Completed courses: **Efficient Algorithms (A+)** • **Operating Systems (A)** • **Computer Security (A)** • **Intro to CS (A+, top 1%)** • **Data Structures (A+, top 1%)** • **iOS App Development** • **Computational Geometry (A)** • **Combinatorial Algorithms (A)**

Languages and Technologies

Experience with **Python, Java, HTML/CSS, JavaScript/jQuery, AngularJS, SQL**

Interested in web development, computer security, computational geometry, optimization

Awards/Honors

Selected for **Outstanding GSI Award** for excellence in teaching (top 9% of department TAs)

Recipient of **Jim and Donna Gray Award** for outstanding computer science students

Invited Member of **Phi Beta Kappa (ΦBK)** Honor Society

ACM **International Collegiate Programming Contest**: Pacific Northwest Regionals