

Ray Song

ray.song@duke.edu ▪ (919) 699-0113 ▪ <http://yrsong.com/>

Education

Duke University (Major GPA: 3.97/4.0, Cumulative: 3.88/4.0) May 2018

- Bachelor of Science in Computer Science and Economics
- Dean's List with Distinction, 2015-17

Work Experience

Software Engineering Intern at Bloomberg LP, New York, NY Jun – Aug 2017

- Streamlined real-time auditing & reporting for Bloomberg Media Distribution by deploying middleware API
- Designed intelligent search parser to consolidate client requests and reduce computing overhead
- **Technical keywords:** Node.js, Express, Mocha.js, RESTful API, Elasticsearch

Software Engineering Intern at Aqueti Cameras, Chapel Hill, NC May – Aug 2016

- Automated network bandwidth evaluation to identify system bottleneck in 16-array gigapixel camera
- Optimized image processing by creating JsonBox app to compute SSD throughput across systems
- **Technical keywords:** C++, Socket/Network Programming, JSON, Bash, Unix/Linux

Software Engineering Intern at Riot Games, Seoul, Korea Jun – Aug 2015

- Created webpage and content for *League of Legends* online quiz event with 100,000+ daily participants
- **Technical keywords:** Java, HTML/CSS, JavaScript, jQuery, Bootstrap

Teaching Assistant at Duke Computer Science Department, Durham, NC Jan 2016 – present

- Data Structures and Algorithms (CS201), Discrete Math for Computer Science (CS230)
- Led discussion session of 30+ students on theoretical concepts and **Java/Python** coding assignments

Project Experience

HackDuke Organizing Committee (<https://www.hackduke.org/>) Aug 2015 – present

- Taught tutorials on **HTML/CSS**, **Rails**, **SQL**, and product design for 3,000+ entry-level hackers

Project RAPID (<https://github.com/yrsong15/DukeParkingAndroid/>) Nov 2016 – present

- Co-authored **Android** app with **PostgreSQL** to display real-time parking lot openings around Duke campus

Research – Computational Thinking (http://yrsong.com/docs/Song_Comp_Think.pdf) Jun 2016 – present

- Conducted study on tools, curricula, and impacts of K-12 CS education (Advisor: Owen Astrachan)

Personal Website/Blog (<https://github.com/yrsong15/yrsong15.github.io>) May 2016 – present

- Published multiple posts on computational thinking, project development, and passion for writing/education

Leadership Experience

Army Sergeant at ROK CBRN Defense Command, Republic of Korea Sep 2013 – Jun 2015

- Led battalion of 90+ personnel in decontamination operations, antiterrorist trainings, and combat exercises
- Awarded Recognition with Distinction by US 20th CBRNECOM CG during ROK-US combined exercise

Resident Assistant at Giles Dorm, Duke East Campus, Durham, NC Aug 2016 – present

- Facilitated adjustment process for 120+ freshmen through proactive guidance and one-on-one meetings
- Hosted engaging events including social issue discussions and in-house dinner with Nobel Laureates

Skills / Interests

Debate: National Representative in Bickel & Brewer Public Policy Forum; finished 3rd among 300+ teams

Basketball: Two-time state champion, co-captain of high school varsity team; ardent fan of Duke Basketball and NBA