

Ray Song

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Education

Duke University (Major GPA: 4.0/4.0, Cumulative: 3.83 / 4.0) May 2018

- Bachelor of Science in Computer Science and Economics
- 2015-16 Dean's List with Distinction

Work Experience

Software Engineering Internship 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, Bash, Unix/Linux

Summer Internship at Riot Games, Seoul, Korea Jun – Aug 2015

- Enhanced data processing for 1,300+ surveys by implementing sorting algorithm on structured text
- Created webpage and content for *League of Legends* online quiz event with 100,000+ daily participants
- **Technical keywords:** Java, HTML/CSS, JavaScript, jQuery, Bootstrap

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

- *Courses Taught:* 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

- Successfully coordinated HackDuke: Code for Good, an annual hackathon with 3,000+ applicants
- Managed introductory tutorials on **HTML/CSS**, **Rails**, **SQL**, and product design for entry-level hackers

Project Llama@Giles (<https://guarded-wave-57585.herokuapp.com/>) Jul 2016 – present

- Created **Ruby on Rails** web app with **Sass** to provide efficiently curated FAQ list for incoming freshmen
- Engineered secure user model by deploying customized **Ruby** regex and **bcrypt** password hash

Personal Website/Blog (<http://yrsong.com/>) Jun 2016 – present

- Built and designed introductory webpage from scratch using **HTML/CSS** and **Bootstrap**
- Published multiple posts on computational thinking, project development, and passion for writing/education

Tech Education Series (<https://www.hackduke.org/education/>) Feb 2016 – present

- Raised campus-wide interest in tech industry by hosting 10+ prominent speakers and recent alumni
- Directed marketing tactics to reach out to various student bodies and foster exchange of diverse opinions

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
- Fostered amiable house environment by holding open-door hours and biweekly floor dinners

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