Justin He

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EDUCATION

University of Southern California, Los Angeles, CA — May 2020
Bachelor of Sciences in Computer Science, Minor in Philosophy
GPA: 3.9 (major), 3.5 (cumulative)

INDEPENDENT PROJECTS

TommyBot (tommybot.com), Los Angeles, CA, *Co-founder and Lead Developer* — Fall 2016 onwards
- Founded and lead a growing team of 4 innovators to create an artificial intelligence chatbot that lives on Facebook Messenger to answer any university-related questions for students of University of Southern California
- Uses Node.js to process queries and send replies; Python to automatically congregate all public USC-related information
- Serves currently over 1,000+ students and answers hundreds of queries daily

Duelr (duelr.heroku.com) — January 2016
- Front-end built with HTML, CSS, JavaScript (Three.js) ; Back-end built with Node.js and Socket.io
- Built at University of Pennsylvania's Collegiate Hackathon PennApps XIII and won Plaid's sponsor prize for innovation
- Transforms your mobile smartphone into a remote controller/sensor to mimic a 3D sword using your laptop screen

Itemify (itemify.heroku.com) — Summer 2015
- Front-end built with HTML, CSS, Javascript; Back-end built with Node.js, Express.js, and Python
- A web application submitted to the Riot Games API Challenge that analyzes 150,000 League of Legends matches to find the most optimal build path for each character in the game

TrinDebate (trindebate.heroku.com) — Summer 2015
- Front-end built with HTML, CSS, JavaScript; Back-end built with Node.js, Angular.js and MongoDB
- Built a community website for my high school Debate Team, which serves 50+ debaters
- Built and designed custom tools for debate-specific tasks including tournament registration and collaborative preparation

LEADERSHIP AND WORK EXPERIENCE

LavaLab, Los Angeles, CA, *Alumnus* — Fall 2016
- Admitted into a selective product incubator and startup community at the University of Southern California
- Completed an intense business, design, and programming curriculum organized by LavaLab
- Presented my semester project (TommyBot) to a crowd of 500+ students, entrepreneurs, and engineers

Trinity School Computer Security Team, *Co-founder and Co-President* — August 2014 - May 2016
- Lead weekly meetings for new and existing members in computer security topics
- Found and participated in computer security competitions, called CTFs

Memorial-Sloan Kettering Cancer Center, New York, NY, *Research Intern* — Summers of 2014, 2015
- Optimized lab technology by automating the creation of graphs/charts of data sets using R scripts for 20+ lab members
- Conducted independent research on Acute Myeloid Leukemia; assessed the disease's dependency on specific proteins

TECHNICAL SKILLS

- Proficient: HTML, CSS, JavaScript (jQuery), Node.js, Python, MongoDB, LaTeX, Git
- Familiar: C++, Java, SQL, R, Processing/Arduino, Photoshop

ACTIVITIES, INTERESTS, AND AWARDS

- Won 2nd Place at High School Hackathon TigerHacks (Dalton School) for a food truck tracker built with Node.js
- Won 1st place at High School Hackathon StuyHacks (Stuyvesant High School) for 3D multiplayer first-person shooter game built with Node.js, Socket.io and three.js
- Won PennApps XIII Plaid sponsor prize for building Duelr
- Programming, Computer Security, Hackathons, Competitive Dance (Member of the Chaotic 3 Dance Team), Swimming, Water Polo, Chinese American Student Association (Member)