JACOB POOLE

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Skills

CODING LANGUAGES

C++

Java

Python

CSS

Javascript

RELEVANT COURSEWORK

Software Construction

Intermediate Data Structures and Algorithms

Theory of Automata and Formal Languages

Logic Design

Intermediate Embedded and Real-Time Systems

Education

University of California, Riverside
B.S. Computer Science 2019

Employment

NSF IRES China   Beijing, China
Researcher and Webmaster   June 2018 to Aug. 2018, June 2018 to Aug. 2018
- Research in semiconductor and microelectronics technology, specifically RRAM
- Become Cleanroom certified to fabricate a 128x8 RRAM array
- Test durability and utility of an RRAM array

Simple Layers   La Crescenta, CA
Web Development Intern   June 2015 to Aug. 2015
- Using HTML, CSS, JavaScript and Dojo, created widgets and tools to help users distinguish data on maps
- Simple Layers: A cloud delivered system for Geographic Information Systems (GIS) and business intelligence with patent-pending capabilities for collaboration
- Website: www.simplelayers.com/

Activities

Citrus Hack · Director (2017), Operations Lead (2016)   Jan. 2016 to May 2017
- Leading a team of 6 to organize two hackathons for 2017; Citrus Hack(600 people) and Cutie Hack(200 people) www.CitrusHack.com www.CutieHack.com

Institute of Electrical and Electronics Engineers (IEEE) ·   Mar. 2016 to
Chair (2017-2018), Vice Chair (2017-2018), Program Chair (2016-2017)   Current
- Manage a board of 18 officers and four large-scale projects
- Delegate tasks throughout the year to help produce events and workshops

Bourns College of Engineering Leadership Council ·   Mar. 2017 to
President (2018-2019), Treasurer (2017-2018)   Current
- Encourage collaboration among the 19 engineering organizations on campus
- Provide base knowledge to help new organizations grow
- Assist with any problem an organization has and needs help with

Society of Women Engineers · Outreach Chair   Mar. 2016 to June 2017
- Organize and run events for SWE, securing volunteer staff and ensuring diversity of events and activities
- Manage and produce 17 outreach events designed to share STEM with the broader community
- Lead Bourns College of Engineering Day, which will host more than 2000 participants from Kindergarten to 12th grade

Association of Computing Machinery (ACM) · Outreach Chair   Mar. 2016 to June 2017
- Recruit members and get them interested in events
- Plan and host events to introduce Kindergarten to 12th grade students to the field of computer science

Projects

Grep Jobs, PennApps 16   Sept. 2017 to Current
- Awarded Best Data Visualization
- Visualizing the job market using a map generated with WebGL and data scraped from popular job sites
- https://devpost.com/software/pennapps16-grepjobs

Southwald Pickering, Educational Video Game at HackPoly 2017   Feb. 2017 to Feb. 2017
- We wanted to create something that would be beneficial to younger students and help them with math in that in-between time from when most students can understand it with relative ease and the time when they're excelling in classes. A learning experience in Unity as well.

Volunteering

FIRST FRC Team 589 Falkon Robotics · Mentor, Team Captain   Jan. 2012 to Current
Crescenta Valley High School
- Lead the robotics team to complete a robot in six weeks, attend various outreach events, and mentor many LEGO robotics teams for elementary to middle school students
- Mentor programming in Java and electronics for the FRC robot.