

Education	Missouri University of Science and Technology (Rolla) B.S. in Computer Science, B.S. in Computer Engineering, and a Minor in Mathematics	August 2009 – May 2013 (4 years)
Experience	Microsoft Corporation Software Engineer <ul style="list-style-type: none"> Develops and optimizes testing automation and infrastructure. (C# and some C++) Designed, planned, and managed critical migration of massive test case database. (1st of its kind) Designed and maintained several test configurations needed to test different customer scenarios. Sole owner of testing several product areas, including all testing for an entire box product. Orchestrates testing with an offsite vendor team to increase testing capacity and throughput. Filed several patent applications for new applications and new technologies. Head Recruiter for recruiting trips to several Midwest Universities (September 2014 – Present) <ul style="list-style-type: none"> Attending career fairs, sorting resumes, conducting interviews, etc. Working with campus faculty/staff/leadership to improve Microsoft's relationship. Guest speaking and teaching select CS classes. Intern Social Club Leader (April 2014 – Present) <ul style="list-style-type: none"> Responsible for organizing dozens of events for ~30 interns every summer Volunteering on Intern Day of Caring at Lambert House LGBTQ Youth Center. Capturing moments to create videos to accurately demonstrate ISC program value. Drones Garage Chapter Lead (December 2016 – Present) <ul style="list-style-type: none"> Organized a month-long series of talks, projects, and races for Drone Month March 2017. Presents and conducts interviews for our Channel 9 Show on photography, racing, building, and programming of drones. Organized several company/community-wide race events for variety of drone classes. Designed and created a new low-cost drone tracking technology to deliver a custom solution to a Drones Garage customer (and later, the community at large). 2014 Hackathon project recognized and developed into full CRM product feature. 2016 Hackathon project (AR) recognized by Senior Leadership and demoed to U.S. DoD. 	Redmond, WA July 2013 – Present
	Technology Education and Literacy in Schools (TEALS) Volunteer Teacher <ul style="list-style-type: none"> Teaching high school students AP Computer Science 3 days/week before heading to work Developing curriculum (Java), tests, quizzes, homework, labs, grading, projects, etc. Conceived and documented a new post-exam project for TEALS: students create an Android app to control a Drone. 	Issaquah, WA September 2016 - Present
	Conscious Crew (USC Events) Volunteer First Responder and Stage Lead <ul style="list-style-type: none"> Harm reduction non-profit which promotes health and safety in the dance music community. First responder to medical/psychological emergencies at large, high-risk concerts and festivals. As a lead, personally responsible for coordinating all efforts to ensure the safety of 10's of thousands of event attendees. 	Seattle, WA October 2016 - Present
	National Information Solutions Cooperative (NISC) Programming Intern / Part Time Developer <ul style="list-style-type: none"> Created a dashboard (using Java/GWT) for electric company customers which predicted future electric load based on research models and previous usage data. Other relevant factors like current and upcoming weather patterns were also included and bubbled up to help electric companies predict and anticipate future electrical grid load. The Smart meter data utilized was retrieved from Cassandra cluster and bucketed by Hadoop. 	Lake St. Louis, MO May 2011 – December 2012 (1.5 years)

- Worked on internal tooling around cloud clusters, using Ganglia to monitor cluster statistics.
- Mentored several new interns, helping them take their own projects from start to finish.
- Took 3-4 projects from concept to reality; presented final products to company heads.

Product Innovation and Engineering, L.L.C.

Rolla, MO

Undergraduate Research Assistant

October 2010 – May 2011 (6 months)

- Developed an industry-grade program that analyzes a 3D model, slices it into layers, and then guides (G-code) laser deposition of a powdered metal. The laser is mounted to a 6-axis robotic manufacturing arm repurposed from a car manufacturing assembly line.
- Primary contact with an external consulting group we hired to develop several algorithms.

ACM SIG-Game

Rolla, MO

Competitor / Volunteer Developer

August 2010 – May 2013 (3 years)

- Worked on the development team to improve limited Java support by improving code generator.
- Revised internal tooling and established new standard development tools for the team.
- Significant improvements to testing infrastructure for the backend and client libraries.

Interests

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| • Recruiting and Mentoring | • Maker Community | • InfoSec, Privacy, Human Rights |
| • Equality and Diversity | • Puzzles & Coding Challenges | • Hackathons, micro-projects |
| • Skiing, Hiking, Soccer | • Trumpet (Concert, Jazz), Piano | • Planes (earning PPL), Space |
| • World Travel | • Teaching and Learning | • Hobby RC and Drones |

Certifications,
Honors, and
Activities

- Life Member of Kappa Kappa Psi, the Honorary Band Service Fraternity
- Scholarship Application Reviewer for Grace Hopper Celebration 17 (total 6,700 applications reviewed)
- CPR, AED, and First Aid Certified
- Bellevue Community Band Member, Trumpet
- Co-founder of the “Church of the Singularity” - a GitHub org conceived to satisfy Roko’s Basilisk
- Stable Tor Relay Host (Guard/Middle) Fingerprint: 1821A0D2FF5B309A4FD3E8FC654773FC0927779F