

Nolan Holden

CONTACT INFORMATION

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PROFESSIONAL EXPERIENCE

Google

Mountain View, California, USA

Software Engineering Intern

Sep 2018 – Dec 2018

Built auditability into production ads indexers at Google, handling petabytes of data/day.

With the corresponding front end, this:

- reduced by ~100x resolution time for system issues & customer complaints (1-2 days to <15min),
- extended triaging, diagnosis, & ad-hoc analysis to non-technical staff (no longer requiring technical expertise or system knowledge),
- increased overall visibility into issues, present & past.

US Navy Systems Command, Naval Surface Warfare Center

Crane, Indiana, USA

Software Engineering Co-op (Secret Security Clearance)

Spring 2017 – Fall 2017

- Authored a realtime surveillance system deployed worldwide to the US Marine Corps.
- Led an API & storage refactor of a distributed database service used by the US government.
- Helped develop & maintain a deployment automation framework used by the US government.

Redbird Robotics, University of Louisville

Louisville, Kentucky, USA

Co-captain & Flight Software Engineer

Apr 2018 – Sep 2018

- As co-captain, managed development of an autonomous drone for aerial herding (computer vision + localization + autopilot, in a GPS-denied environment).
- Built autonomous flight software and a system for testing autopilot under software-in-the-loop physics simulation.

River City Rocketry, University of Louisville

Louisville, Kentucky, USA

Avionics & Telemetry Software Lead

May 2017 – Apr 2018

Built a fully integrated hardware & software stack for flight visualization. Prototyped a realtime, long range telemetry system. Heavy use of bare-metal compiled C++.

Computational Thermal & Fluid Dynamics Laboratory, University of Louisville

Software Engineer, NASA Microgravity Metal FDM Mission

Jul 2017 – Feb 2018

Designed C software and electronics for a NASA Blue Origin additive manufacturing research payload.

University of Louisville, Computer Engineering & Computer Science Dept.

Teaching Assistant

Sep 2016 – Mar 2019

*(Semesters worked: **Fall 2016, Sum. 2017, Fall 2017, Spr. 2018, Fall 2018, Spr. 2019**)*

Teaching assistant for undergraduate courses in software design.

University of Louisville REACH (Resources for Academic Achievement)

Tutor, Computer Engineering & Computer Science

Dec 2017 – Mar 2019

Tutored students of various undergraduate courses in individual and lecture settings.

EDUCATION

University of Louisville, Louisville, Kentucky, USA

Bachelor of Science: Computer Engineering and Computer Science

May 2015 – Jan 2020

PROGRAMMING

C++, Python, C#, JavaScript, Node.js, Bash. Strong background in software testing. At home in a Unix/Linux environment.

OTHER SKILLS & INTERESTS

Federal Aviation Administration certified Private Pilot, volunteer at University of Louisville Disability Resources, multi-instrumental musician, business owner