

Seth Knights

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971-707-9423

EDUCATION

The University of Chicago

Bachelor of Arts in Computer Science | GPA: 3.95/4.00

Chicago, IL
Expected, June 2022

Catlin Gabel

Diploma | GPA: 4.00/4.00

Portland, OR
June 2022

EXPERIENCE

Argonne National Laboratory

June 2023 – August 2023

Research Assistant

Chicago, IL

- Worked with Dr. Benjamin Blakely in the Strategic Security Sciences division on the development of autonomous intelligent cyberdefense agents, specifically for applications in autonomous vehicles. Implemented a proof-of-concept agent that monitored vehicle cybersecurity concerns by connecting it to an existing simulation environment with Python and ROS.

Professor Nathan Hill, Trinity College Dublin

May 2022 – June 2022

Research Assistant

Portland, OR (Remote)

- Collaborated with Professor Hill to revive previous work between Professor Hill and Dr. Xun Gong on the computer assisted reconstruction of proto-languages, finishing a complete proof of concept and submitting a paper.
- Debugged, reconstructed, and rewrote Hill and Gong's previous work in Python and Javascript.
- Created a Docker image for future ease of use, which was successfully deployed by Professor Hill and numerous colleagues.

Fosshost

November 2020 – July 2022

Core Volunteer, User Experience

Portland, OR

- Build and managed all front-end infrastructure, including Fosshost's main site and server management dashboard, using Javascript and REST APIs, helping to grow the organization from supporting less than 50 to 200+ open-source projects.
- Coordinated with designers and organization leaders on implementation.
- Independently designed and built a server management dashboard used by over 50 supported projects.

FRC Team 1540

July 2020 – June 2022

Team Member, Robot Programming Department

Portland, OR

- Wrote all vision capture, processing, calculation, and auto-aim code for the team's 2022 FRC competition robot using Java, helping to rank the team in the top 25 of over 120 teams in the PNW district.

LEADERSHIP & ACTIVITIES

PROJECTS

SKILLS
