

Robert Bain
2066 Chase Loop SW
Albany, OR 97321
bainro@oregonstate.edu

EDUCATION

Oregon State University – Corvallis, Oregon

Masters of Science, Fall 2020 – Current

- Major: Artificial Intelligence
GPA: 3.8

Oregon State University – Corvallis, Oregon

Bachelors of Science, June 2016

- Focus: Pre-Medicine
- Major: Biology
GPA: 3.7
- Minor: Chemistry
GPA: 4.0

Portland Community College – Portland, Oregon

Associates Degree, General Studies, March 2017

- Focus: Computer Science
GPA: 3.6

RESEARCH

GFR's Autonomous Vehicle Team

November 2019 – Present

- Engineered several realtime 3D object detector pipelines that ran on small compute platforms.
- Trained feedforward and recurrent DNNs. Used classical CV methods as well like homography, Perspective-n-Point, etc.
- Mentored undergraduate students on their capstone projects.

DARPA Machine Common Sense

October 2020 – July 2021

- Created AI systems meant to understand theory of mind, intuit gravity, and perform 3D task and motion planning at a level of competence comparable to human infants.
- My code took 1st place in a competition against groups at MIT, Harvard, Berkeley, and Stanford.
- Collaborated with UoU roboticists and NYU psychologists.

INDUSTRY

Lead Software Developer

April 2018 – March 2020

Northwest Media Inc. – Eugene, Oregon

- Worked on a software as a service website with 150,000 users and several multi-million dollar state contracts.
- Coded custom reporting for the administrators of California's Department of Health Services.
- Led the conversion of 68 online interactive foster parent training courses from Flash to HTML5.
- Trained and managed two junior developers, and led regular programming team meetings.

Full Stack Web Developer

January – April 2018

Consultant – Eugene, Oregon

- Developed a website for *Cascadia Prepared* about the Northwest's next large earthquake.
- Produced an advertising web page for *Alignment Ventures LLC*.

PORTFOLIO

rkbain.com

November 2017 – Present

- Web portfolio of personal, professional, and school projects. Links to github, LinkedIn, etc.