

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

## EDUCATION

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### **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

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### **GFR's Autonomous Vehicle Team**

Nov. 2019 – Sept. 2021

- 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**

Oct. 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 1<sup>st</sup> place in a competition against groups at MIT, Harvard, Berkeley, and Stanford.
- Collaborated with UoU roboticists and NYU psychologists.

## INDUSTRY

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### **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

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### [rkbain.com](http://rkbain.com)

Nov. 2017 – Present

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