Zach Eddy

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Summary

- I'm Zach – I enjoy working with nice people who value creativity and learning.

Education

University of Puget Sound – Fall 2012 to Spring 2016

- **Bachelor of Science in Computer Science, Cum Laude**
  - Minor in Mathematics.
- **GPA:** 3.74
- **Dean's List**
  - Spring 2015, Fall 2015, Spring 2016
- **President, Upsilon Pi Epsilon Honor Society**
  - Offered to Computer Science students by the department chair.
  - One of three others selected in 2015 based on GPA and overall passion for the subject.
- **Edward G. Goman Memorial Scholarship**
  - Computer Science departmental scholarship awarded to four students each year.
  - Faculty-chosen recipients demonstrate communication skills, an eagerness to learn, and academic excellence.
- **Phi Eta Sigma Honor Society**
  - Membership offered to students at Puget Sound who fulfill a certain GPA requirement.

Work Experience

Computer Science Tutor - University of Puget Sound – Fall 2015 to Spring 2016

- Selected by department to help students write code and learn fundamentals in a one-on-one context.
- Communicated and explained unintuitive ideas in a clear, concise manner.

Computer Science Teaching Assistant - University of Puget Sound – Spring 2016

- Answered questions and helped ~25 introductory students during a weekly lab.
- Provided classroom assistance to professor David Chiu.

Hospital Intern - Kalispell Regional Medical Center – Summer 2012, Summer 2013

- Assisted physicians throughout the hospital, primarily in the cardiac catheterization lab, operating room, and emergency room.
- Educated on HIPAA confidentiality guidelines in order to access electronic medical records.
- Observed high-stress procedures including heart surgery, cardiopulmonary resuscitation, and emergency medicine.

Programming

Selected Code

- CS 431 - Artificial Intelligence (Java) – github.com/ZachEddy/CS_431
- CS 440 - Capstone of Computer Science (Python, work in progress) – github.com/ZachEddy/ImageClassifier
  - Worked independently to build a neural network that classifies images based on principles of deep machine learning.

Notable Projects

- Built a small compiler that translated MiniJava into MIIPS assembly code.
- Wrote a Django application on a Raspberry Pi to control electronics in my room via phone, laptop, etc.
- Programmed a ray tracer to render 3D object scenes. I also added reflection, refraction, shadows, and textures.
- Created a Rails application to use as a campus tour of Puget Sound.