Zach Eddy

Tacoma, Washington
zeddy@pugetsound.edu
406.241.5438

Summary

- I want to embark on a career in application development, collaborate with smart and creative teammates, and learn from experienced mentors.

Education

University of Puget Sound – Fall 2012 to Spring 2016.

- **Bachelor of Science in Computer Science**
  - Minor in Mathematics
- **GPA: 3.72**
- **Upsilon Pi Epsilon**
  - Offered to Computer Science students by the department chair.
  - One of two others selected to join in 2015 on the basis of 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 have demonstrated solid communication skills, an eagerness to learn, and academic excellence.
- **Dean's List**
  - Spring 2015, Fall 2015.
- **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 faculty to assist Computer Science students in writing code and learning fundamentals.
- Communicated and explained unintuitive ideas in a clear, concise manner.
- Helped others in a one-on-one context. I found this especially enjoyable and personally enriching.

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

- Answered questions and help ~25 introductory students program during a two hour weekly lab.
- Provided general classroom assistance to professor David Chiu.

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

- Assisted physicians throughout the hospital, most notably 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
  - The thesis class for Computer Science. Students pick from a set of suggested projects and work in groups of 1 to 4.
  - I proposed my own project instead. I'm currently building a convolutional neural network (ConvNet) to classify images.

Notable Projects

- Built a small compiler that translated MiniJava into MIIPS assembly code.
- Wrote a Django application on a Raspberry Pi to control lights 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.