

Adam Zethraeus

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Education

Brown University (Anticipated Graduation 2012)

Providence, RI

- Junior: A.B. Computer Science Candidate, (Course GPA: 3.8)

Relevant Courses

CS015: Introduction to Object Oriented Programming	CS127: Database Management Systems
CS031: Introduction to Computer Systems	CS129: Computational Photography
CS016: Intro to Algorithms and Data Structures	CS195-P: Cybersecurity and International Relations
CS032: Introduction to Software Engineering	CS132: Modern Web Applications
CS051: Models of Computation	CS167: Operating Systems (Current)
CS123: Introduction to Computer Graphics	CS143: Computer Vision (Current)

Projects of Note

- C++ Ray Tracer (Phong lighting model with reflections, shadows, textures)
- Metaballs (OpenGL implementation of 'Marching Cubes' algorithm for scalar field visualization)
- ImageCompareServer (Java client & C++ server image comparison engine)
- "Hello World" (Location aware Django mobile web app)
- Conway's Game of Life (MIPS Assembly Language)
- MIPS Compiler (Java)
- Solar-Galaxy (Java Octtree galaxy)
- VaryWrite (Django web app facilitating teaching and text correction)
- Shell (Unix shell written in C)
- Video Textures (Matlab implementation of paper)

Applicable Skills

Languages Proficiency

Java, C++, Python, C, XHTML, CSS, Matlab, PHP, Javascript/JQuery, SQL, MIPS Assembly Language

Other Experience

Object Oriented Program Design, W3C Standards, Photoshop CS5, Linux, Windows, OS X, Illustrator CS5

Experience

Program Manager Intern - AutoPilot Team, Microsoft Bing (Summer 2011)

Bellevue, WA

- Tasked with analyzing lifecycle and downtime of infrastructure supporting Bing and other Microsoft products.
- Interfaced with employees both within the team and across the company to appropriately educate assessments.
- Performed data mining work in order to identify bugs and systematic inefficiencies and authored specifications to address issues and save costs.

Teaching Assistant - Brown University CS Department (2009-Present)

Providence, RI

- CS132 – (Head TA and Course Designer) Modern Web Applications (Fall 2011 – Spring 2012)
 - Spearheaded the rebuilding of the course from scratch in preparation for spring semester.
- CS004 – (Head TA) Introduction to Scientific Computing and Problem Solving (Matlab) (Spring 2010)
 - Redesigned large aspects of the course with other HTAs and the professor Chris Crick.
 - Handled organizational aspects of the course on a daily basis.
 - Managed a staff of 13 Undergraduate TAs teaching approximately 130 students.
- CS031 - Introduction to Computer Systems (Fall 2010)
 - Assisted Professor Pascal Van Hentenryck in teaching the course. (130 students)
 - Built and maintained course website. Held 2 weekly office hours, graded programming assignments and exams.
- CS004 - Introduction to Scientific Computing and Problem Solving (Matlab/C course) (Spring 2010)
 - Facilitated teaching with Professor Nikos Triandopoulos. (130 students)
 - Prepared and ran weekly labs, held 2 weekly office hours, graded programming assignments and exams.
- CS015 - Introduction to Object Oriented Programming and Computer Science (Java course) (Fall 2009)
 - Assisted Professor Andy van Dam in the course by holding office hours and labs, and by grading. (150 students)
 - Acted in skits related to lecture topics.

Undergraduate Research Assistant - Brown University CS Department (Summer 2010)

Providence, RI

- Worked on 'CodeBubbles' project in a research group headed by Professors Andy van Dam and Steve Reiss.

Freelance Web Developer & Consultant (2005-present)

Providence, RI

- Self taught on a continuous basis to maintain a high level of proficiency in modern web technologies, standards and design principles.
- Conceptualized and Developed web solutions for 95.5 WBRU (largest radio station in Providence).

Additional Skills and Interests

Sports: Fencing (Epee and Sabre at Varsity level for Brown University for 2 years), Skiing, Rock Climbing

Interests: Photography, Music, Web Standards, Ephemeralization (Wikipedia, EFF, & UK ORG donator)

Language: Swedish (Fluent but non-technical)