Sean A Stephens

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Education

University of Arizona Expected Graduation in May 2017

Majors: Computer Science, Mathematics, Honors College

GPA: 3.95

Relevant Coursework (Completed by Dec 2015):

- Object Oriented Programming, Data Structures, Systems Programming and UNIX, Data Visualization, Comparative Programming Languages, Database Design
- Linear Algebra, Real Analysis, Abstract Algebra, Partial Differential Equations, Topology

Skills

- Proficient in Java with JUnit, Python. Familiar with C.
- Familiar with web technologies, with significant experience using D3.js
- Proficient in UNIX environments

Work Experience and Research

Student Research Intern at Pacific Northwest National Laboratory 2012–13, Summer 2014

X-ray Computed micro-Tomography Technician/Data Analyst

Worked on over 15 scientific user projects; Responsibilities included analyzing and managing several terabytes of 3D data. Wrote python code and ImageJ macros to automate data processing.

Teaching Assistant, University of Arizona Jan. 2014 – Present

Five sessions, assisting in courses using Java, C, and Python.

Directed lab sessions for 20-25 students; was responsible for grading, instruction in group and individual settings, development of assignments, and holding office hours.

Research Assistant, University of Arizona Spring 2015 – Present

Working under Dr. Carlos Scheidegger

Developed an interactive visualization tool for the CoGe project (genomevolution.org), and am currently doing development work for a multi-way genomic comparison visualization tool.
Demo available at (hdc-arizona.github.io/synteny-vis)

Other Activities

- First place finish among University of Arizona teams at the 2014 regional-level ACM International Collegiate Programming Competition, and second place finishes at two Microsoft code competitions.
- One year experience doing science outreach and education through the UofA College of Science.
- Links to personal data visualization projects at seanastephens.github.io