

WORK EXPERIENCE

- Wealthfront, Inc. – Palo Alto, CA 8/15 – Now
- **Software Engineer**
- Conductor, Inc. – New York, NY 5/14 – 7/14
- **Software Engineering Intern** integrated into team using JavaScript and Java to build Searchlight SEO platform.
 - Helped re-build feature for updating user data in bulk that increased performance by an order of magnitude.
 - Gained proficiency in Backbone.js, Spring MVC, and TDD/BDD (Mockito/JUnit, expect.js/Jasmine).
- Science Applications International Corporation (SAIC) – Huntsville, AL 5/13 – 2/14
- **Software Engineering Intern** tasked with researching and prototyping data visualization & manipulation tools.
 - Implemented web interface to existing signal strength simulations with PHP, JavaScript, & HTML5 Canvas. Used Google Earth API and Ozone Widget Framework to deliver feature set comparable to desktop application.
 - Utilized Raphaël JS Library to create SVG drawing package for use within digitized training manuals on tablets.
- Auburn University Computer Science Department – Auburn, AL 1/13 – 5/13
- **Teaching Assistant** for two introductory computing courses, ~100 students total.
 - **Tutor** for Java programming and discrete mathematics courses.
- Auburn University Photographic Services – Auburn, AL 9/12 – 3/13
- **Web Developer & IT Technician**, coding in PHP, JavaScript, HTML/CSS, and VBA.
 - Responsible for managing web presence and troubleshooting server problems.
- Asseco Central Europe – Brno, Czech Republic 6/11 – 7/11
- **Software Engineering Intern** in software internationalization; coding in C# and VBA. 6/10 – 7/10

EDUCATION

- Auburn University – Auburn, AL 8/11 – 5/15
- **Bachelor of Software Engineering**; minor in **Finance**
 - **3.7/4.0** GPA (Magna Cum Laude); Full tuition scholarship; Honors Scholar

OPEN SOURCE PROJECTS

[z1c](#) on GitHub

- [Monte Carlo Computational Chemistry](#) – *Modeling molecular interactions for solutions with thousands of molecules*
- Implemented OpenMP multithreading code that increased typical on-CPU performance by 2-5x.
 - Optimized Nvidia CUDA kernels & Thrust library calls, increasing typical on-GPU performance by 1.2-1.4x.
- [AutoDefine](#) – *Automatically defines vocabulary words, inserting spoken pronunciations and images into Anki flash cards*
- Uses Merriam-Webster's XML-based API and Anki API; written in Python. 100+ MAU.
- [gs](#) – *A quantified-self dashboard with a focus on automated data gathering*
- Data accessed through Gmail, Toggl, and Withings APIs, then stored in MySQL database.
 - Backbone.js data models drive Google Charts visualizations on dashboard; PHP manages back-end.

PUBLICATIONS

- **Sanek, R.** "Password Storage in Databases: A Review of Best Practices." *Auburn University Journal of Undergraduate Scholarship*. (Spring 2015 [Issue](#))

AWARDS

- **ACT** Score: 36 (99th percentile, see [article](#)) | **SAT** Score: 2140 (97th percentile)
- U.S. Department of Education Presidential Scholar Candidate, 2011
- Inactive Department of Defense Secret Security Clearance