Tyler Hallada

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Technical Knowledge

Domains:	Consumer & Enterprise websites, Web apps, APIs, Microservices, Developer tools, Test automation, Healthcare tech, Interface design, and Android
Languages:	Python, JavaScript, Java, C, CSS, LaTeX, Scheme/Racket, Coffeescript, and HTML5
Libraries:	Django, Flask, Elasticsearch, Twitter Bootstrap, PostgreSQL, SQLAlchemy, Backbone, Ractive.js, Meteor, Gulp, Node.js, Browserify, and jQuery
Applications:	Git, SVN, Heroku, Jenkins, Linux, SSH, tmux, and Vim

Professional Experience

Kyruus, Boston, MA — **May 2014 – May 2016**

Software Engineer — Python, Django, Flask, Jenkins, Elasticsearch, JavaScript, CSS, HTML5, Linux

Developed applications and infrastructure to make healthcare in the US more efficient. Created major features, implemented new applications, fixed various bugs, and monitored data integrity across the whole stack of the web platform used by some of the top health systems in the US.

- Created a new API in Flask to manage provider and patient data as free-form JSON in a PostgreSQL database managed with versioned json-schema to accommodate fast-changing customer data requirements without database migrations.
- Created an in-house replacement for Mixpanel in Javascript and Flask that logged user-side analytics and errors across all of Kyruus' web applications.
- Worked on a single-page web app for generating real-time analytics reports and visualizations.
- Built ProviderLineup, a tool that allowed customers find system-wide gaps in specialty coverage.
- Ensured the integrity of the platform's data by making an internal tool that analyzed nightly updates and alerted on significant differences.

MIT Media Lab, Cambridge, MA — **June 2013 – May 2014**

Undergraduate Researcher — JavaScript, CSS, HTML5, Linux

Designed and implemented new user interface concepts for a projected augmented reality system called LuminAR including a touch-based desktop, a projected ruler, a tech demo, and a copy-paste app for physical documents.

Zulip (acquired by Dropbox), Cambridge, MA — **December 2012 – January 2013**

Software Developer Intern — Python, JavaScript, Java, Android

Developed various parts of a business communications web app in JavaScript. Interfaced with internal and third-party APIs to develop an Android app. Created automated tests for various interface elements in JavaScript.

Valti, Cambridge, MA — **May 2012 – December 2012**

Software Engineer — Python, Django, JavaScript, Facebook API, Heroku

Spearheaded the backend development of an online rental platform with a Harvard startup. Directed and collaborated with other developers to create a functional, slick website in less than three months.

George Mason University, Fairfax, VA — **January 2012 – May 2013**

Undergraduate Teacher's Assistant — Python, Java

Instructed students in Java and Python programming during group labs and online forums.

Education

Northeastern University, Boston, MA — **Fall 2013 – Fall 2015**

College of Computer and Information Science — GPA: 3.43/4.0

Bachelor of Science in Computer Science — Activities: Member of NUHacks & NUACM

George Mason University, Fairfax, VA — **Fall 2011 – Spring 2013**

Volgenau School of Engineering and Honors College — GPA: 3.41/4.0

Candidate for a Bachelor of Science in Computer Science with a Minor in English (transferred)

Organizations

GMU's Student-Run Computing and Technology club (SRCT) — **Spring 2012 – Present**

Co-founded a group that enhanced student computing and produced websites valuable to the Mason community.

Boston Python Workshop — **Summer 2012**

Volunteered at Python workshops empowering women of all backgrounds with practical programming skills.

Interests/Hobbies

Creative Writing, Poetry, Camping, Hiking, Running, and Raspberry Pi Hacking