

Kristopher Skelton

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SKILLS

JavaScript	React	Vue	Python	Git
HTML5 / CSS3	NodeJS	Vuetify	Django / DRF	Jira
Sass / SCSS	Express	SQL	Flask	Heroku
	MongoDB	AWS S3	Marshmallow	CI/CD

WORK EXPERIENCE

Avalara, Software Development Engineer - Content Central

May 2019 - Present

Avalara provides the fastest, most reliable, easiest way to accurately calculate sales and use tax

- Full stack development in a content ingestion application that powers \$400M in transactions
- Develop new features and maintain **Vue.js**, **Vuetify**, **Node**, and **PostgreSQL**
- Implemented custom document conversion and viewer: From our secure user portal UI to cloudconvert to **AWS S3** and back to our site where documents are served in iframe elements
- Optimized **PostGIS** boundary shape retrieval using memoization and chunking
- **REST API** improvements include changing most GET routes with URL query params to POST with body
- Selected and implemented **Express-Validate** for our REST API validation
- **Agile** project paradigm: tickets tracked in **Jira**; **Gitlab** for distributed code sharing; **Slack** team communication
- Suggested changes to sprint pacing that improved burndown by 30% starting the first sprint
- Updated **AWS S3** configuration files for all of our code environments
- "Writing Effective Bug Reports" document was well-received by management and users
- Mentored an intern from Ada Academy, and onboarded new developers

Arbor Lake Consulting, Owner

April 2018 - Present

Arbor Lake Consulting provides technical services and software development

- **Python** command line tools to automate photo manipulation for Instagram posts via Sendible
- **React** v16 web-app for finding vacation rentals in Hawaii. **PostgreSQL** served from **Heroku** via **DRF API**
- **React** single page application for generating custom trackhubs for use in the UCSC genome browser

University of Washington, Instruction Assistant

June 2018 - August 2018

The School of Professional and Continuing Education provides non-traditional education opportunities

- Pair programmed and mentored students in learning foundations of **Python 3**: data types, loops, flow control, built-in methods, and external tools like **BeautifulSoup**
- Revised course materials to meet learning objectives

Sportsrocket, Software Engineer

August 2016 - April 2018

Sportsrocket provides streaming and on-demand video; I worked on customizing HTML5 video players

- Updated **JavaScript** functionality and **HTML5 CSS3/SCSS** design of our front-end video player
- Implemented 360-video custom controls and layout with **three.js**
- Applied **JavaScript** and **CSS polyfills** to ensure that in-browser video experience was the same for Chrome and Firefox on OS X, Windows, iOS and Android, plus IE 8 -11 on Windows and Safari on OSX and iOS
- Engineering workflow includes **SCRUM**, **Kanban**, **JIRA**, **Gulp.js**, **Heroku**, **Git**
- Wrote client documentation for **VTT** (closed caption and subtitle) file formatting
- Streamed video to 40,000 monthly users and 3.5 million special event viewers

Institute for Systems Biology, Contract Engineer

Feb. 2016 - April 2016

ISB is a nonprofit biomedical research organization, founded in 2000 by systems biologist Leroy Hood

- Rebuilt public-facing web application with standards-compliant **HTML5**
- Implemented **ARIA** accessibility, **responsive** mobile support and **CSS3** media queries
- Refactored **AJAX** calls with **jQuery**
- **Designed** user interface, adhering to the organization's style guide

Code Fellows, Teaching Assistant

Nov. 2015 - Feb. 2016

Code Fellows is a Seattle-based, in-person coding academy

- Provided mentorship in object-oriented programming, data structures and algorithms, **DOM manipulation** and **DOM traversal**, **Git** version control
- Debugged and reviewed student projects in **HTML**, **CSS**, and **JavaScript**

VOLUNTEERING

Puget Sound Programming in Python (PuPPy)

Jan. 2019 to Present

Co-Organizer for Interview Practice Night (IPN) • Steering Committee

*IPN is a weekly opportunity for PuPPy members to practice at a whiteboard, solving coding questions that come from sources such as **Cracking the Coding Interview***

- Ensure that there is a venue for each week's event, and that the host and on-site contact person have made at least one contact prior to the event. Each week IPN is held at one of eight different locations and is hosted by a volunteer PuPPy staffer.
- Prepared a rubric matching volunteers with their preferred location, and from that created the event schedule
- Ensure that the PuPPy Code of Conduct (as found at PSPython.com) is prominently displayed and that all attendees, volunteers and location staff adhere to the CoC.

EDUCATION

Washington State University, Pullman, WA

M.A. Applied History

B.A. Humanities, summa cum laude

Certificate: Technical and Professional Writing

Code Fellows, Seattle, WA

Certificate: Full-Stack JavaScript

Certificate: Front-end Web Development

Certificate: Node.js

INTERESTS

- 3D modeling in Blender and Tinkercad for printing with filament and SLA resin
- D&D terrain building and model painting
- Donkey car racing (trained RC cars to autonomously race via machine learning)