

Kristopher Skelton

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SKILLS

JavaScript	React	Vue	Python	Git
HTML5 / CSS3	NodeJS	Vuetify	Django / DRF	Jira
Sass / SCSS	Express	PostgreSQL	Flask	Heroku
		AWS S3	Marshmallow	Jenkins

WORK EXPERIENCE

Caelum Research (assignment at NOAA/Fisheries Research Analysis and Monitoring) April 2021 - Present
FRAM Data Team supports NOAA's West Coast fish population research

DevOps

- Replace several deprecated **Jenkins** plugins, including MultipleSCM, with custom **Jenkinsfiles** and **groovy** libraries
- Manage **Docker** containers

Database Engineering

- Participated in lengthy selection process to replace **Couch DB**
- Co-architected replacement of Couch DB with **MongoDB Enterprise**, **Realm** and **Atlas**
- ETL **Oracle SQL** data to **MongoDB**

Project Management

- Unified ticket tracking from **Jira**, **Github Issues** and personal spreadsheets to **Smartsheet**
- **Scrum** master for standup meetings

Avalara, Software Development Engineer - Content Central May 2019 - Feb 2021

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
- Configured **Jenkins** build processes for development and production environments
- "Writing Effective Bug Reports" document was well-received by management and users
- Mentored an intern from Ada Academy, and onboarded new developers

University of Washington, Instructional Assistant June 2018 - Aug 2018

UW School of Professional and Continuing Education provides education opportunities that fit learners' lives

- Co-instruct adult learners in **Python** essentials, including: data types, functions, loops, logic, file i/o, and object oriented programming
- Support **Python 3** ecosystems: **PyCharm**, **Pandas**, **Jupyter Notebook**
- Proofread and update class learning modules

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 filaments and SLA resin
- Tabletop RPG terrain building and model painting
- Donkey car racing (training RC cars to autonomously race via machine learning)