Tom Betthauser

Full Stack Software Engineer

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SKILLS

Experience working with Python, JavaScript, React / Redux, NodeJS, Express, Flask,
Ruby on Rails, ActiveRecord, PostgreSQL, SQLite, MongoDB, GraphQL, Apollo, Docker,
D3.js, jQuery, Bash, Pytest, RSpec, Jasmine, MochaJS and more

EXPERIENCE

App Academy – *Full Stack Software Engineer & Lead Instructor for new Developers*

June 2020 – PRESENT

- Assisting in maintenance of **internal company platform and API** built with Ruby on Rails
- Developing and maintaining **internal tools** written in Python and NodeJS **interfacing with APIs** from separate team
- Designing and developing stand-alone student-facing **fullstack applications** React / Redux, Express, Flask in conjunction with Docker, NGINX, Heroku and cloud services like AWS S3.
- Acting as the **primary manager and mentor** for groups of new developers, helping them in **designing and building fully functional React applications** and **APIs** using Flask and Express in conjunction with **PostgreSQL**.

Colleges / Universities – *Adjunct Professor & Visiting Lecturer*

Jan 2013 – May 2020

- **Mentoring and managing** groups of **30-150 students** in both lecture and lab instruction environments.
- Taught advanced and beginning studio art as well as art history and **basic frontend development** for student portfolio websites at **College of Marin**, **West Valley College**, **Cerro Coso College** and **Bakersfield College** as well as acting as **primary manager and webmaster** for a campus gallery and a visiting lecturer at campuses including **San Jose State** and **UC San Diego**.

PROJECTS

SotA Data Visualizations and Cross-Reference Tool – *https://www.sotasurvey.org*

An ongoing data visualization project I was asked to start in 2019/2020 centered on 80+ dynamically generated *data visualizations* using the *D3.js* library from *100+ beta participants* in conjunction with a webscraper. Additionally built custom python-based *desktop application* tool for exploring raw data and an in-browser custom *data cross-referencing interface*.

Full Stack React Applications – *Two Examples of Fully-Functional Platforms*

Samples of **fullstack projects** built using **React / Redux**, **Node / Express** and **Ruby on Rails** respectively with **PostgreSQL** databases and hosted via Heroku. Both use **custom user authentication** built with **Bcrypt** and include full **CRUD** functionality. Rumble specifically was built collaboratively **working with a small team** and incorporates a **web-sockets live chat** feature.
http://tomblr.herokuapp.com | *http://rumble-demo.herokuapp.com*

Additional project links at *https://tombetthauser.com*

EDUCATION

Yale University – *MFA 2012*