



Tom Betthauser Software Developer / Arts Educator

- www.tombetthauser.com
- tombetthauser@gmail.com
- (415) 845-0414
- github.com/tombetthauser
- linkedin.com/in/tombetthauser

Skills / Proficiencies

Python • JavaScript • Ruby on Rails • React / Redux • Node.js • Selenium • jQuery • D3
PostgreSQL • SQLite • MySQL • Docker • GraphQL / Apollo • MongoDB • AWS • Git • Shell Script

Ongoing Arts Community Projects

Arts Survey Data Visualization Webpage — D3 / JavaScript / Webpack [live](#) | [github](#)

A data visualization JavaScript project using the D3 library and Webpack to implement Object Oriented ES6 syntax. The results from an annual community-developed survey for visual artists.

- Works with **JSON data** processed and sanitized from raw **CSV data** encompassing responses from **100+ participants**.
- Uses **JavaScript** and the **D3 library** to create **dynamically generated data visualizations** from **89 questions**.

Arts Database Explorer Desktop Application — Python / SQLite3 / TkInter / Shell Script [zip](#) | [github](#)

A desktop application built in Python with TkInter and SQLite. Specifically to help artists, gallerists etc. explore the results from a census-style survey for visual artists and learn basic SQL.

- Creates **user-friendly GUI** with Python's **TkInter** library as a clickable desktop app via a custom **Shell Script**.
- Takes raw **SQL queries** from users for local **SQLite database** via **Python** to create open cross-referencing interface.

Arts Database Creator / Web Scraper Command Line Tool — Python / Selenium / Shell Script [zip](#) | [github](#)

A tool built with Python and Selenium for automating a search for all galleries, museums and art schools in a given city. Search attempts to find website, email and physical addresses then output as raw multi-purpose CSV data file.

- **Dynamically scrapes Google Maps** results using **Object Oriented Python** and the **Selenium library**.
- **Searches for and sanitizes** address, phone number and website for galleries, outputting a multi-purpose **CSV data file**.

Employment Experience

ADJUNCT PROFESSOR – Lecturer / Multimedia Arts Instruction / Gallery Director & Webmaster [Spring 2013 - Fall 2020](#)

College of Marin, West Valley College, UC San Diego (Guest Lecturer), Bakersfield College & Cerro Coso College

- Instructed students in building **mobile-responsive JavaScript-heavy personal front-end websites** in non-CS courses.
- Directed **campus gallery**, built and maintained **gallery website**. **Managed 10+ employees** for installation of multimedia and **digital artwork** for **6 annual exhibitions** and public visiting artist lectures regularly **exceeding 250 attendants**.

EXHIBIT TECHNICIAN – Basic IT Maintenance / Digital Exhibit Installation & Fabrication [Spring 2006 - Fall 2016](#)

Exploratorium Museum, San Francisco & The Natural History Museum of Los Angeles

- **Maintained operation of servers** responsible for exhibits during nights and weekends **in place of normal IT staff**.
- **Rotated lead on teams of 5+ technicians** during **installation, repair and fabrication** of **300+ interactive and digital exhibits**.

Education

YALE UNIVERSITY SCHOOL of ART – MFA in Studio Practice

[Master's Degree - Fall 2012](#)

SAN FRANCISCO ART INSTITUTE – BFA in Studio Practice

[Bachelor's Degree - Fall 2010](#)

Other Full-Stack Projects

TOMBLR – A Tumblr-inspired blogging app made by Tom! (**React / Redux, Ruby on Rails, PostgreSQL**) [live](#) | [github](#)

- Implemented custom user authentication in **Rails** with **BCrypt** to protect specific **React** routes from users until signed in.
- Stored hashed and salted **BCrypt** passwords in **PostgreSQL** to protect user information.
- Employed **OOP** design principles in application architecture and minified **JavaScript** structure with **Webpack**.

RUMBLE – A Bumble-inspired dating app. (**React / Redux, Node.js, MongoDB, WebSockets, AWS**) [live](#) | [github](#)

A dating app clone for retired professional wrestlers built as a collaborative project with three other developers.

- Implemented custom user authentication in **MERN** stack with **BCrypt** to protect specific **React** routes until logged in.
- Responsible for organizing and building clean **React** component structure with **Object Oriented** design principles.
- Took lead on integration of **Websockets** chat feature and **AWS S3** bucket features for custom user content.
- Worked closely with other team members to optimize **Redux** cycle for instantaneous matches and chatting between users.
- Responsible for custom **Mobile Responsive Design** making in depth use of **CSS3's Flexbox** layout model.

OPEN STABLE – An OpenTable clone (**React, JavaScript, MongoDB, GraphQL, AWS, MongoDB**) [live](#) | [github](#)

A reservation app helping users find available horses and riding groups.

- Worked collaboratively with a team of 3 other software developers to build and integrate **custom user authentication pattern** using **BCrypt**, a complex **GraphQL** structure and a **Google Maps API** component.
- Took lead on integration of **AWS S3** bucket functionality using **Faker.js** for seeded **GraphQL / MongoDB** models.

Personal / Professional References

Cody Harris

Senior **Software Engineer** (SDE2)
Amazon Web Services, Seattle (WA)
Coworkers at the Exploratorium Museum
codh@amazon.com
(415) 847-6409

Alexander Brown

Lead Full-Stack **Software Engineer**
Mortgage Trading Analytics, San Rafael (CA)
Coworkers at the Exploratorium Museum
alexanderdouglassbrown@gmail.com
(415) 847-4962

Kiki Johnson-Karp

Resident **Artist / Exhibit Engineer**
Meow Wolf Interactive Museum, Sante Fe (NM)
Coworkers at the **Natural History Museum of Los Angeles**
johnson.kiki@gmail.com
(203) 500-0926

Daniel Herwitt

Associate Instructor of Visual Arts
Polytechnic Preparatory Academy, **New York (NY)**
Coworkers at **Yale University / Teaching Assistants**
dherwitt@polyprep.org
(720) 352-5169