

Alexis Dumas

FULL-STACK WEB DEVELOPER · SOFTWARE DEVELOPER

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Experience

Beyond Certified, Inc. (Early-Stage Startup)

United States

FULL-STACK WEB DEVELOPER

Jan. 2024 - Present

- Developed an **API proxy server** for **MongoDB Data**, **GridFS**, and **session storage and authentication API endpoints**, using TypeScript, Node.JS, and Express.JS.
- Developed a **single-page web app** for searching a product database **using the user's camera to scan UPCs**, and allowing administrators to edit product information and upload product images, using TypeScript, Mithril.JS (similar to React.JS), and QuaggaJS.
- Aided in **data collection and analysis using Python and spaCy (for natural language processing using statistical models)**.
- Designed the entire alpha stage front-end UI/UX with the help of PicoCSS.

The Kairos Project

San Jose, CA

FREELANCE PROGRAMMING CONTRACTOR

Jun. 2018

- Developed a **web-based social networking MVP for local social activism** and organizing using Firebase, React.JS, Redux, and TypeScript.
- Designed the alpha stage front-end UI/UX and responded quickly to client requests

Education

The Pennsylvania State University, College of Engineering

University Park, PA

B.S. IN COMPUTER SCIENCE, MINOR IN PHILOSOPHY

Jan. 2019 -

- **GPA: 3.69** (Good Standing)
- On the **Dean's List for four semesters**
- Currently on haitus for a year and a half so far due to brain injuries, will eventually be returning

Extracurricular Activity

Atomic Database

SOLE DEVELOPER

Apr. 1, 2019 - Jul. 22, 2023

- Created a proof-of-concept database using a **lazy backtracking/logic programming query system with a natural language front-end** using Rust from scratch (v3.0) and Python generators (v2.0).

Fides: Distributed Trust Application

SOLE DEVELOPER

Feb. 15, 2020 - May 19, 2020

- Created a **prototype social network designed to provide distributed reputation tracking through arbitrated and horizontal contracts**, using React.JS, Redux, and TypeScript.

Bloc WIP

SOLE DEVELOPER

Aug. 26, 2023 -

- Designing and programming a sleek native **alternative Android app for self-hosted or official instances of the OSS Discord clone Revolt** using Jetpack Compose, Kotlin, and official Google Developer best practices.

Embryo Engine WIP

SOLE DEVELOPER

Jan. 21, 2023 -

- Working on a data-oriented, scriptable entity-component-system-based game engine using Rust, raw OpenGL, and SDL2, focused on helping indie programmers build retro immersive sims and open world RPGs.

Self-Hosted Services

SOLE DEVOPS ENGINEER

Jan. 01, 2023 -

- Creating and maintaining five secure self-hosted container services on a **Fedora CoreOS system using Podman, Podman-Compose, and Ignition, with SELinux enabled** for friends and family.

Skills

DevOps DigitalOcean, Docker, Docker Compose, Podman, Podman Compose, GNU/Linux Sysadmin, Github CI/CD

Back-end Rust Rayon and channels, Express.JS, REST API, MongoDB, Firebase

Front-end Jekyll, Zola, React.JS, Redux, Mithril.JS, Angular.JS, HTML5, CSS, Flexbox, Jetpack Compose

Programming Rust, TypeScript, Python, JavaScript, C, Kotlin, Java, Ruby, OCaml, Common Lisp, LaTeX