

Alec B. Lownes

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Summary

Professional software engineer with experience working in a number of capacities including server backend, web frontend, database access, internal tool design, and design specification writing.

Technical Tools

Python 2/3, JavaScript, JQuery, React, Redux, Electron, Webpack, Node, Java, J2EE, SQL, Android SDK, Hibernate, CSS, Spring MVC, JUnit, Eclipse, Atom, Toad, NetBeans, PyCharm, IDLE, Django

Industry Experience

Software Engineer

Warrendale, PA

Performance Review Institute

August, 2014 - Present

- Part of a 4 person team supporting and developing the company's internal systems for Aerospace, Medical, and Transportation Audits
- Author design specifications for enhancements of all sizes
- Participate in large system enhancements touching all parts of the system
- Enhancement and bug fix work including SQL database scripts; frontend JavaScript, JQuery, HTML, and CSS; and backend Spring MVC and Hibernate
- Code reliability enabling International Trade and Arms Regulation (ITAR) information storage on the system
- Work with TensorFlow to predict audit failure chance ahead of time
- Redesign existing Swing offline application as an Electron-based React-Redux application

Shift Leader/Crisis Counselor

Berkeley, CA

Crisis Support Services of Alameda County

September 2012 - January 2014

- Speak with individuals in crisis over the phone to help manage their current and near-future situations
- Coordinate the crisis room and work with local law enforcement to rescue individuals in imminent danger
- Responsible for filing elder and child abuse reports to the local authorities

Personal Projects

Node Libraries

Stonemason

- Microservice stub generator with options enabling a wide range of different technologies
- Featured on Node Weekly([#160](#))

trinity-sim

- Node implementation of the Trinity study utilizing financial data up to 2016
- Browser or library branches allowing for quick simulations or meta-analysis

Services

Waypoint - <https://api-waypoint.herokuapp.com/>

- Request visualization service using Socket.io to enable request updates without refreshing
- Ability to send requests from the website and visualize their responses, as well as visualizing requests made to a specific room url

Education

Bachelor of Science in Psychology
Wright State University

Dayton, OH
March 2012