[Sensitive contact information removed]

Phone: (510) 256-9637 Email: alec.lownes@gmail.com

aleclownes.com - github.com/cakenggt

Summary

Professional software engineer with experience working in a number of capacities including server backend, web frontend, database access, and design specification writing. Leverages self-led CS education for fast adaptation to new environments, platforms, and languages.

Technical Tools

Python 2/3, JavaScript, JQuery, 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
- Machine Learning Lead: Work with TensorFlow to predict audit failure chance ahead of time

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

Minecraft Plugins - 25,000+ total downloads

SpellScript

- Enables JavaScript parsing and execution in-game for custom "spell" writing
- Multithreaded design lets multiple scripts run simultaneously while hooking into the single-threaded Bukkit server implementation safely

Ollivanders

- Adds 100+ spells from Harry Potter as well as numerous minor effects such as Lycanthropy, Floo Powder, etc.
- Over 7,000 downloads and multiple plugin spotlight videos. Currently running on 40 servers

Node Libraries

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

neurotic

- Multilayer perceptron neural net library with visualization tool
- Built-in analysis functions tell you which data sets are the weakest and the cost to accuracy of removing them, for pruning purposes

Independent Games

Dot Slash Hack

- MMORPG written in Node to help motivate computer science education in children
- Use of WebSockets and compartmentalized front-end code execution allows for on-the-fly "spell" construction/execution
- Redis and PostgreSQL data storage for maximum scalability of both map area and user data

Education

Bachelor of Science in Psychology Wright State University

Dayton, OH March 2012