Thaddeus G. Hardesty

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Education

California State University, Chico, CA   January 2017 – May 2019
Pursuit of Bachelor of Science in Computer Science

University of Texas at Austin, Austin, TX   August 2013 – May 2015
Pursuit of Bachelor of Science in Computer Science
- Turing Scholars Computer Science honors program

Work Experience

HomeAway, Software Engineer Intern   June 2015 – August 2015
- Tidied implementation and built fluent Java client library for an internal service
- Built web-based debugger for writing and testing queries against that service
- Implemented support for nested Elasticsearch aggregations in Kibana dashboard

Hamumu Software, Game Developer   August 2011 – November 2012
- Updated games written for low graphics modes to perform properly on modern systems
- Abstracted dependencies on Windows in order to add Linux support
- Implemented new scripting features in the in-game level editor

Projects

Glowstone   Java
- Re-implementation of the Minecraft server software, original and open-source
- Compatible with existing plugins for the Bukkit framework for server modding
- Supports most creative mode gameplay features

JspEdit   C/C++
- Editor for undocumented 256-color game sprite pack file format
- Includes individual and batch import and export and other editing features

Unpickled   Python, PHP, MySQL
- Browsable database of worlds and levels in independent game Supreme with Cheese
- Automated processing of world files, including minimap images for all levels
- Browsable relations between world packs, worlds, levels, and level contents

SpacemanDMM   Rust
- Full parsing suite for poorly-documented niche gamedev language Dream Maker
- Powers language server including symbol search, go-to-definition, and autocomplete
- Ancillary tools including documentation generator and map renderer

Additional Information

Programming languages: Rust, Python, Java, C++, C, Lua, &c.
Web development: JavaScript/CSS3/HTML5, Python, PHP, MySQL, SQLite