Maxwell Burson

Software Engineer

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PROJECTS

BitBoss Battles 2.0 - *livestream overlay game*

SEP 2017 - NOV 2017

- Typescript, React.js, Node.js, Webpack, TypeDoc
- BitBoss Battles brand used by 12-15 thousand streamers.
- Headline product at Opera Event's TwitchCon 2017 booth, with great user feedback.
    - Featured in two livestreamed panels.
    - At least 2,000 booth visitors with lines.
- Battle events pre-calculated in Node.js and played in real time on clients.
- Low latency and little ongoing data use.
- Integrated with Twitch.tv overlay, Opera Event backend systems, and other Opera Event products.
- Custom tooling includes balance tool that exports .csv files and local test environment.
- Complete game including complex skills, attack timings, and graphics.

Corewar <link> - *virtual machine battle arena*

APR 2017 - MAY 2017

- C, Python
- Compiles custom assembly language to VM program binary format.
- Binaries execute in a reverse engineered virtual machine.
- Terminal display with ncurses.
- Python script used to compare project and reference executable memory dumps.

push_swap <link> - *constrained sorting*

FEB 2017

- C, Bash
- With limited operations, sort arguments.
- Bash script finds average moves to sort and failing results.

EXPERIENCE

Opera Event, Fremont CA - *Intern*

AUG 2017 - NOV 2017

- Lead developer and architect of BitBoss Battles 2.0.
- Collaborated with executive team on design, engineering, and integration.
- Lean software and startup practices, with weekly customer feedback sessions.

SKILLS

Primary:	Typescript/Javascript, C, Git, HTML5, CSS3
Secondary:	Go, Bash, React.js, C++, Python, MongoDB

EDUCATION

42, Fremont CA <link>

2016 - 2017

Computer science school with project based learning, peer collaboration, and technical rigor.

"My God is 42 impressive. This is not another programming bootcamp. It's another MIT."

- Paul Graham, Y Combinator <link>

Free Code Camp, Online <link>

2016, *FRONT END CERTIFICATE*

Allan Hancock College, Santa Maria CA

2013 - 2014