

# Maxwell Burson

## Software Engineer

805 441 6163  
maxwellburson@gmail.com [<link>](mailto:maxwellburson@gmail.com)  
linkedin.com/in/maxwellburson [<link>](https://www.linkedin.com/in/maxwellburson)  
github.com/maxwellburson [<link>](https://github.com/maxwellburson)

---

## 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>](https://github.com/maxwellburson/corewar) - 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>](https://github.com/maxwellburson/push_swap) - 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, Lean Development

## EDUCATION

### 42, Fremont CA

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>](https://www.ycombinator.com/people/paul-graham)

### Free Code Camp, Online [<link>](https://www.freecodecamp.org)

2016, FRONT END CERTIFICATE

### Allan Hancock College, Santa Maria CA

2013 - 2014