

# ANDREW BOOTH

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## WORK EXPERIENCE

### BAE SYSTEMS INC

*Computer Engineer*

*August 2016 - May 2017*

Designed, implemented, and integrated actuation unit tests running onboard flight control computer using C and PPC assembly. Ensured code obeyed safety critical development and performance standards. Wrote Python script for translating hardware test scripts from PowerTAP probe language to GHS scripting language

### CORNING INC

*Software Developer*

*2013 - 2015*

Reduced modeling software processing runtime by >10x, added user interface, and translated into MATLAB for additional runtime improvements and future extension. Built system for commanding and receiving data to/from array of mobile phones by leveraging Flask, Socket.IO, and Twilio. Learned Flask web framework and used to deploy to Heroku server.

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## EDUCATION

### APP ACADEMY

*Software Development*

*August 2017*

### UNIVERSITY AT BUFFALO

*B.S. in Computer Engineering*

*Class of 2016*

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## SKILLS

Ruby, Python, JavaScript, C, Ruby on Rails, Flask, Node, React, Redux, jQuery, HTML, CSS, SQL, MongoDB, Twilio, Socket.IO

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## PROJECTS

### SLINK.CHAT

Slink started as a simple attempt at cloning the much-beloved team collaboration tool Slack, and quickly became an amalgamation of Slack and 90's AOL Instant Messenger.

- Implemented nostalgic channel-based real-time chat service using Rails' ActionCable for message broadcast and React/Redux for frontend state management
- Replicated classic Windows 95 style graphical interface through the use of self-defined SCSS mixins and jQuery UI's Draggable widget

### PRIMORDIAL PLAYGROUND

Primordial Playground is a colorful, interactive Game of Life simulator, built with pure JavaScript, HTML, and CSS.

- Created engine with vanilla JavaScript and an HTML canvas to simulate cellular automata and their update/draw loops
- Built user interface using HTML and SCSS generated CSS allowing users to update simulation parameters and interact with the game environment in real time

### REGEXTRANSLATOR.COM

A two-way translator for those regular expressions you forgot to document.

- Collaborated with 3 other developers utilizing GitHub and the Heroku pipeline
- Handled redux cycle design and implementation, real-time translation updating, and syntax validity checking