

MATTHEW BUNGE

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EDUCATION

University of Washington, Seattle, WA
Bachelor of Science in Computer Science, Economics

PROJECTS

Damocles (Ongoing), Physical/Online Board Game

- Worked in small team to design and play test game rules of a competitive multiplayer game that incentivizes cooperation between players.
- Designed and implemented online version of game in a React.js based client.
- Developed server backend built on Node.js and Express.js capable of handling multiple game instances with reconnection.

Spotify Skip Button, Spotify Data Logging and Visualization

- Built a button with Swing that integrates with the Spotify API to skip the currently playing song on a PC Spotify client
- Developed a MySQL database on Google Cloud to record information about the moment of skip sent from the button, as well as information about the skipped song
- Designed a d3 graphic to visualize information from the database with filtration by length of skipped song, total number of skips, and average percent through song skipped

MLB Showdown, Multiplayer Card Game Client

- Created Java engine for the simulation of a baseball card game called "MLB Showdown" produced by Wizards of Coast in the early 2000s
- Designed GUI using Swing that allows for drafting of teams, modification of lineups, and usage of strategy cards during a game session
- Devised syntax to simplify strategy cards and allow for new creations

Matthewbunge.com, Personal

- Developed personal website to showcase various projects and activities
- Built several small projects for the purposes of learning and refining various web-based technologies like jQuery, AngularJS, and d3.js
- Optimized load times to handle heavy content like videos and embedded images

Mexican Healthcare, Data Analysis of Mexican Pregnancies

- Composed R script to filter and analyze data related to C-sections in Mexico
- Created data visualizations with Tableau to assist data filtration
- Wrote report on effectiveness of various predictors of C-sections

SKILLS

Languages: Java (Fluent), JavaScript/HTML/CSS (Proficient), R (Proficient)
SQL (Proficient)

Additional: Google Cloud (Prior Experience), AWS (Prior Experience),
Docker (Prior Experience)