

Brian Luc

<http://brianluc.com>
luc2@illinois.edu | 847.767.5828

EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

B.S IN COMPUTER SCIENCE
Expected May 2019 | Urbana, IL
Cum. GPA: 3.96
Dean's List | James Scholar

LINKS

Github:// **bluc41**
LinkedIn:// **brianluc41**
Website:// **brianluc**

COURSEWORK

UNDERGRADUATE

Linear Algebra
Differential Equations
Discrete Math
Systems Programming
Data Structures
Data Science
Intro to Machine Learning

SKILLS

LANGUAGES

Java • Python • JavaScript
Go • C/C++ • Clojure
HTML/CSS • Matlab • SQL

DEVOPS

Unix/Bash • Git • Subversion
Docker • Vagrant
SumoLogic

DATABASES

AWS DynamoDB • MySQL
MongoDB

EXPERIENCE

QUALTRICS | SOFTWARE ENGINEERING INTERN

May 2017 - August 2017 | Provo, UT

- Worked on the Target Audience team to create a new Embedded Data Service with better performance and scaling
- Built multiple prototypes, comparing the performance of different data models, data stores, and languages (Go, Java Play, Java Spring)
- Compared different concurrency models in Goroutines + Channels, Completable Futures, Parallel Streams, and Executors to optimize performance
- Used SumoLogic and wrote Python scripts to measure performance
- Was able to achieve up to 15x speedups with Go and DynamoDB compared to original Java Spring + MySQL implementation

PROJECTS

PIGGY BANK | BOILERMAKE 2017 | TOP 10 SUBMISSIONS

- Augmented reality game that helps users set and reinforce good habits
- Users can set goals and accomplish them by collecting location-specific virtual tokens in augmented reality
- Users are penalized for not meeting weekly goals by donating a set amount to charity
- Wrote the backend using Node.js, Express.js, Mongoose.js, as well as a Python script to generate random data

HNBUZZWORDS | 2016

- Used Clojure to write an app that scrapes headlines and URLs from Hacker News and ranks them to find buzzwords and popular URLs for a given day
- Used Enlive, a web scraping library for Clojure to extract the headlines and URLs
- Ranks words found in headlines and URLs by assigning each one a weight based on a combination of points and traffic for a post

GRAPEVINE | 2016

- Mobile app that allows users to find and post social events near them
- Worked on RESTful API backend using Node.js, Express.js, and MySQL
- Used Google Places API (reverse geocoding) to cluster user locations into single entities
- Testing with Mocha/Chai.js

COOKIE JAR | WILDHACKS 2016 | TOP 10 SUBMISSIONS

IMC FINANCIAL MARKETS - BEST DATA VISUALIZATION

- Chrome extension that increases user productivity by incurring automatic donations towards charity upon visiting blacklisted websites
- Wrote the front-end logic for the app, including using the Stripe API to handle payment processing and sending user browsing data to the server
- App features a Node.js/MongoDB backend, D3.js for data visualization, and a mobile app for multi-factor authentication