(407) 408-4325 Boston, MA gabeklav@gmail.com

Gabriel Klavans

Software Engineer

GitHub: gabeklavans LinkedIn: gabrielklavans

Computer Scientist interested in signal processing, developing software for audio/music, and generally making people's lives better. Passion for music, video games, and free, open source technology for all.

SKILLS

Languages JavaScript/TypeScript, Java, Python, C++/C, Languages

Tools and Environments Git, NodeJS, AngularJS/ReactJS, Git, VSCode, MongoDB, Jenkins, Mocha/Chai

Completed component for uploading firmware to STM32 ARM chips within our proprietary application

TECHNICAL EXPERIENCE

ASSOCIATE SOFTWARE ENGINEER

Sept 2021 — Present

Cambridge, MA

- Canon USA, Healthcare Optics Research Lab
- Prototyped and collaborated on a Jenkins automated build-server for use in multiple projects

FULL STACK JAVASCRIPT ENGINEER

(Intern) Aug 2020 — Apr 2021 / (Full-time) Apr 2021 — Sept 2021

Boston, MA

- Contributed to every level of the stack: AngularJS, SailsJS (NodeJS wrapper), MongoDB
- Spearheaded feature involving PhaserJS-based customizable browser games
- Worked closely with technical lead to discuss architecture and design goals for the product
- Took charge of style/static analysis tools for code-base

PROJECTS

Tapple

PITCH DETECTION DIRECTED STUDY

gabeklavans/computational-audio

Directed study with Prof. Wayne Snyder in fundamental frequency (F_0) detection

• Studied and implemented several F_0 detection methods, such as autocorrelation, YIN, and cepstral

NUMPADULATOR

gabeklavans/Numpadulator

Numpad that doubles as a 4-function calculator

- Designed case/plate fixtures in Fusion360
- Designed and assembled PCB from scratch using KiCad
- Runs on a slightly modified version of QMK, a C-based open-source keyboard firmware

STALKS. gabeklavans/stalks-app

Mobile companion app for the game Animal Crossing: New Horizon

- Made using ReactNative + TypeScript
- Created a custom graph to display time-series data generated from an algoithm mined from the game by community members

EDUCATION

Master of Science in Computer Science, Boston University Bachelor of Arts in Computer Science, Boston University

Sept 2020 — May 2021

Sept 2017 — May 2021

ACTIVITIES

BU Bands Member, Boston University

Xylo & Drumset Player Spartans Drum & Bugle Corps

Discrete Mathematics Course Assistant Boston University

2017 - 2021

2018, 2019 (Gold Medalists)

Spring, 2020