

JOHN COLLINS

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7 Delaware Road, Morristown, NJ, 07960

EDUCATION

Tufts University

Medford, MA

Bachelor of Science in Computer Science. GPA: 3.60 (Major), 3.35 (Overall)

Anticipated Graduation: June 2020

Relevant Coursework: Data Structures, Algorithms, Applied Machine Learning, Computer Systems Security, Web Programming, Operating Systems, Computational Physics, Database Systems, Machine Structure and Programming, Game Design, Digital Electronics, Probability & Statistics, Discrete Mathematics

WORK EXPERIENCE

Listen Inc.

Boston, MA

Software Engineering Intern

May 2019 – August 2019

- Developed a live update mechanism for internal Python development tools.
- Created a local Google Drive caching server to improve build tool performance.
- Developed a cross-platform installer to install the SoundCheck application and its dependencies.
- Built a virtualized build and test infrastructure to parallelize local builds and enable cloud migration.

Tufts University Computer Science Department

Medford, MA

Web Development Teaching Assistant (COMP 20)

January 2018 – December 2019

- Maintained weekly office hours to assist students with coursework and review/grade assignments.

MLB Advanced Media

New York, NY

Web Engineering Intern

June 2018 – August 2018

- Developed next generation MLB Draft Tracker using React. Improved SEO with an 80% faster initial paint, 20% faster time to interaction, and server-side rendering.
- Developed and deployed the sponsored “MLB All-Star Green Path” custom Google Maps web view in MLB’s Ballpark App for the 2018 MLB All-Star Game.
- Managed individual deadlines & deliverables for Agile software development process meetings and ceremonies.
- Rebuilt proprietary design pattern library with React components & integrated them into existing web architecture.
- Created a containerized development environment to speed up initial setup for local development.

Wells Fargo Advisors

Short Hills, NJ

Wealth Management Intern

May 2016 – August 2016

- Created a comprehensive IRA account database to ensure accurate and up to date beneficiary information.
- Developed an automated stock market data gathering program for use in weekly/monthly reports.
- Established and maintained records compliant with FINRA regulatory requirements.

PROJECTS

BEEmoji (2019): *Google AppEngine, Google Cloud Datastore, Node.js*

- Designed and developed a Discord bot to facilitate image inlining and reuse in messages.

RLearn (2019): *Keras, scikit-learn, Python Websockets*

- Designed and developed a Python library to offload machine learning model training to a GPU accelerated server.

Tufts Ears for Peers (2019): *Socket.io, JQuery, Express*

- Built a web application to enable organization’s volunteers to securely chat with anonymous users.

Zero Gravity VR Mechanics (2018): *Unity*

- Developed a Unity asset to enable a comfortable sitting zero gravity experience in VR.

Harvard Square Homeless Shelter Street Team Management (2018): *React Native, Firebase*

- Built a mobile application for optimizing time and resources of homeless shelter volunteers with a team of 15.

Wiki Alexandria (2016): *Django, Beautiful Soup*

- Designed and developed a research tool to automate my topic research process that was a finalist at Hack@Brown 2016.

SKILLS

Coding Languages: Python, JavaScript, C++, C, SQL, HTML, CSS, MATLAB

Frameworks/Packages: ReactJS, React Native, Node.js, Express, Webpack, JQuery, Qt Installer Framework

Software/Systems: Git, Perforce, Debian Linux, Windows, OSX, Docker, Virt-Manager, QEMU, Vagrant