

EDUCATION

Stonehill College | Easton, MA

Graduation: May 2021

Bachelor of Science Degrees

Majors: Computer Science and Neuroscience

SKILLS

Languages: Typescript / JavaScript, C#, C++, Python, Java, Arduino, Perl, SQL, HTML, CSS, MATLAB, Ruby, Fortran77, MIPS, SPSS, Kotlin, PHP

Frameworks: React, React Native, .NET Core, Akita, Angular, Android Studio, NodeJS, ExpressJS, Bootstrap, Python Flask, CSS Flexbox, Flutter, MySQL, Oracle, NestJS

Highlights: **RESTful API development** (.NET Core, ExpressJS, NestJS, and Flask), **Continuous Integration & Deployment** (Azure DevOps, Travis CI, Fastlane), **Linux** (Debian-based distros & Arch Linux, System Administration, Raspberry Pi), **Cloud Computing** (AWS Lambda functions, Cloud storage, Web hosting), **Scrum Agile Methodology** (Bi-weekly sprint meetings, Sprint-backlog, Planning poker), **iOS & Android beta-testing** (TestFlight and Google-Play Console),

Lab Techniques: Thin-line chromatography, Fractional Distillation, Mass-spectrometry, NMR spectroscopy, Spectrophotometry, ELISA, PCR, Western Blot

EXPERIENCE

Envative | Rochester, NY | Full-Stack Development (Remote)

July 2021 – February 2023

- Developed, refactored, and debugged UI components for <https://www.armadillohotel.com/> using the React (Typescript) framework; utilized the Akita framework for reactive state management.
- Developed, refactored, and debugged backend infrastructure including APIs, object models, authorization services, event schedulers and handlers, auditing services, and logic related to database migration; utilized the .NET Core (C#) framework.
- Utilized Docker for the local deployment and active monitoring of the backend and SQL database.
- Utilized Azure DevOps Pipelines in continuous integration, allowing for errors and merge conflicts to be identified and addressed prior to the merging of any code change into the master branch.
- Utilized Postman for API endpoint testing, performing CRUD operations, authorization management, and report generation.
- Interacted with a SQL database through Azure Data Studio, querying and modifying application data through the execution of SQL scripts.
- Used Git for version control.
- Worked remotely with a team of highly skilled senior developers, learning how to write clean and scalable code and quickly identify and troubleshoot problems when they occur. .

Choose2Reuse Flutter Application | Easton, MA | Dev-Ops

January 2021 – May 2021

- Configured the build-automation tool *Travis CI* to perform unit-testing upon every push to our project's GitHub repository, notifying each developer about the unit testing results via an automated Slack notification.
- Create and maintain tools that serve to help the development process and promote software integrity.
- Developed and maintained the infrastructure for continuous integration and deployment.
- Constructed automation tool *Fastlane* to distribute beta builds to testers through TestFlight and Google Play Console
- Created a Perl script prompting user for a number of QR-codes and then queries the QR-code generation endpoint of the quickchart.io API. The script creates a new subdirectory and stores each QR-code within it as a PNG file, each encoding a randomly generated UUID that could be used to create a new sticker and attached to a container.

Tapd.club | Asheville, NC | Angular Web Development Intern

November 2020 – February 2021

- Developed frontend logic using the *AngularFire* library to connect the web application to a Firebase Cloud-Storage instance, giving each the ability to create, update, and delete profile pictures.
- Employed Angular routing to allow users to navigate directly to brewery pages by searching the Brewery's URL (as opposed to the previous way of requiring users to start on the homepage and navigate through to the desired page manually).
- Refactored the system of displaying and playing/iterating through the songs of a given brewery's playlist when on a brewery's page. This refactoring solved the ongoing problem of songs auto-playing due to premature requests being made to the Spotify API.

Wine Cellar Application | Easton, MA | Android App Development

November 2020 – Present

- Created UI and frontend logic in Android Studio, utilizing the Retrofit2 library to transfer data between the application's frontend and an Oracle database via endpoints of an ExpressJS RESTful API hosted on an NGINX server.

Veterans Administration Hospital | West Roxbury, MA | Research Assistant

January - May 2019

- Interpreted EEG data of mice, assisted in stereotactic surgical procedures, assisted with electrophysiological recording experiments, and attended research meetings

Stonehill College | Easton, MA | Biochemistry Research Assistant

January - May 2018

- Studied the effect of mutations on the behavior of M13 bacteriophage, sequenced genomes to measure the propagation rate of M13 mutants in E. Coli cells, performed gel electrophoresis, western blots, and various other biochemical research techniques

Stonehill College | Easton, MA | Sub-Reviewer for IEEE Conference on Games 2021

May 2021

HOBBIES

Music / Songwriting - Writes original music for guitar, bass, and keyboard; Performs vocals; "First Place" in Mashville Songwriting Contest in Mashpee, MA, winning a trip to Nashville, TN, to work on songwriting with up-and-coming country musicians; Practices audio production using Logic Pro X in spare time.

Martial Arts - Apprentice black belt in Tae Kwon Do; Currently training in Brazilian Jiu Jitsu and kickboxing.

Microcontrollers - Enjoys to tinker with Arduino and Raspberry Pi microcontrollers (in conjunction with their associated microelectronics), building small devices that can be interacted with over bluetooth and/or wifi through Android applications (Developed with Expo/React Native).