

# Liam Gensel

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## Education

*The State University of New York at Buffalo*  
Computer Science BS

Expected: 05/2019  
GPA: 3.73/4.0

## Projects

### ***Phat and Phresh | Rap Lyric Generator (Kent Hack Enough - 2017)***

- Wrote the backend API and algorithm that generates lyrics based on a dictionary of base words and rhyming schemes using C# and the .NET Core 2.0 framework.
- Created several different frontends - an iOS app, website, and an Amazon Echo with a custom Alexa skill.
- Produced a music video with a song written from the lyrics generated and presented at the finals of the hackathon.

### ***TaskTaskTask | A Live Collaborative Nesting Task List (MHacks X - 2017)***

- Built an API with Python that uses websockets to update connected clients any time a change is made to a task list.
- Worked on the front-end website built with React to create a responsive and friendly user experience.

## Work Experience

### ***The State University of New York at Buffalo | Teaching Assistant - CSE 199 (08/2016-Present)***

- Facilitate the success of over 450 students in an introductory computer science seminar course.

### ***The State University of New York at Buffalo | CSE IT Helpdesk (10/2015-Present)***

- Resolve technical issues experienced by users in the computer science department.

### ***Liberty Mutual Insurance - Dover, NH | TechStart Intern | Publishing API (06/2018-08/2018)***

- Worked on an API to generate and distribute insurance documents using Spring Boot and AWS Lambdas in an agile environment.
- Optimized developer efficiency by automating the local setup of the publishing API for testing.
- Built a web application with Vue.js to simplify metadata configuration for clients.

### ***Shift4 Corporation - Las Vegas, NV | Development Intern (06/2017-08/2017)***

- Built an internal tool for code reviews based on revisions in the SVN repository using C#, .NET framework, and SQL.
- Automated the setup of development environments using Powershell DSC to save hours of manual configuration.

### ***Shift4 Corporation - Las Vegas, NV | Software QA Intern (06/2016-08/2016)***

- Worked with a quality assurance team to find bugs in both web and mobile versions of VT4, a secure point of sale system.

## Leadership Experience

### ***UB ACM | Software Engineering Chair (08/2018-Present)***

- Update and maintain club website and software including Chicken, an event check in system that integrates with Slack.
- Manage a team of 3 student developers who work on the club's software.

### ***UB Hacking 2018 | Co-Sponsors Lead (11/2017-Present)***

- Reach out to companies to acquire sponsorships and funding for the event.
- Manage a team of 6 student volunteers and organize meetings.

### ***UB Hacking 2017 | Venue Lead (05/2017-11/2017)***

- Scheduled the venue and designed the floor plan for a 24 hour hackathon.

## Research Experience

### ***University at Buffalo Nanosatellite Laboratory | Software Developer (11/2016-09/2017)***

- Develop a frontend and backend for Mission Control's website using Flask, a Python framework.
- Development of Radio Server, which handles communication from the satellite to Mission Control using Redis.

## Technical Skills

**Languages** - Python, JavaScript, Java, C#, C++, C, Go, Standard ML, MIPS

**Tools and Frameworks** - Git, Spring Boot, Flask, React, Vue.js, .NET Framework, SQL, MongoDB, Websockets

## Awards

### ***TechStart Intern Hackathon | Technical Excellence Award (07/2018)***

- Produced a live collaborative whiteboard using Angular and Node.js to improve meeting productivity of remote teams.

### ***UB Hacking 2015 | ValueCentric - Best Life Enhancing Hack (11/2015)***

- Built an android application to provide the location of the printer with the shortest distance calculated with the queue time.