

EDUCATION

Buffalo, NY	University at Buffalo	Aug 2016 – May 2020
<ul style="list-style-type: none">• Majors: B.S. in Computer Science, B.A. in Mathematics (GPA: 3.68)• Computer Science Coursework: Data Structures, Algorithm Analysis & Design, Distributed Systems, Computer Architecture, Discrete Structures, Digital Systems, Theory of Computation• Mathematics Coursework: Linear Algebra, Differential Equations, Higher Math, Calculus I-III		

EMPLOYMENT

Software Engineer Intern	Teachers Pay Teachers	Jun 2019 – Aug 2019
<ul style="list-style-type: none">• Designed and built a backend microservice using TypeScript, Node.js, and Express.• Increased the number of users that completed profile information by ~40,000 by deploying a homepage banner that prompted users to complete their profiles. Won company hackathon for “Most Immediate Impact”.• <u>Utilized:</u> TypeScript, Node.js, Express, GraphQL, TypeORM, MySQL, React, Jest for test-driven development, Jenkins for continuous integration		

Software Engineer Intern	CUBRC	Jan 2019 – May 2019
<ul style="list-style-type: none">• Developed a command-line interface to handle the management, configuration, and orchestration of Docker containers that make up the CUBRC Heartwood software suite.• <u>Utilized:</u> Click Python, Docker SDK for Python, Docker Compose		

Undergraduate Teaching Assistant	University at Buffalo	Aug 2017 – Present
<ul style="list-style-type: none">• Courses: Introduction to Computer Science for Majors I & II• Teaches first-year computer science students the fundamentals of object-oriented & functional programming, test-driven development, design patterns, and basic data structures & algorithms.		

Software Engineer Intern	Innovative Systems, Inc.	May 2018 – Aug 2018
<ul style="list-style-type: none">• Developed an application to perform schema migrations on company databases using C# and Transact-SQL.• Built parser in C# to pre-process data from the Dow Jones Anti-Corruption database; optimized space complexity by implementing Simple API for XML.		

Head Coding Camp Student Assistant	SHUFSD	Jun 2016 – Jul 2017
<ul style="list-style-type: none">• Led a team of student assistants in teaching elementary school students the benefits of a future in computer science and STEM.• Taught 100+ elementary school students the basics of programming in JavaScript and Google Scratch.		

SOFTWARE PROJECTS

Personal Website: www.hansbas.com	Dec 2017 – Present
<ul style="list-style-type: none">• Deployed by Jekyll static site generator, data stored in YAML files, templating with Liquid, and blog posts written in Markdown.• <u>Utilized:</u> HTML, CSS, JavaScript, Bootstrap, Jekyll, GitHub Pages, Markdown, Liquid, YAML	

PomodoroTube	Dec 2018 – Jan 2019
<ul style="list-style-type: none">• Developed a web app using HTML, CSS, and JavaScript that allows users to study/work alongside YouTube videos that mimic the Pomodoro Technique: study music/livestreams play during the “work” phase and users’ subscriptions play during the “break” phase.• Integrated YouTube Data API v3 to fetch users’ YouTube subscriptions.• <u>Utilized:</u> HTML, CSS, JavaScript, YouTube Data API v3, YouTube IFrame Player API, Materialize	

University at Buffalo Events Scraper	Oct 2018 – Dec 2018
<ul style="list-style-type: none">• Wrote a web scraper in Python to extract information from the University at Buffalo events website.• Users have choice to export extracted information in a JSON, XML, or YAML file.• <u>Utilized:</u> Python, Selenium	

SKILLS

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- **Languages:** Python, TypeScript, Java, C#, JavaScript, HTML, CSS
 - **Software:** Git, GraphQL, MySQL, Visual Studio Code, PyCharm, Eclipse
 - **JavaScript:** React, Node.js