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HANS **BAS**

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www.github.com/haanmiba

EDUCATION

Buffalo, NY **University at Buffalo** **Aug 2016 – May 2020**

- **Majors:** B.S. in Computer Science, B.A. in Mathematics. GPA: 3.73
- **Computer Science Coursework:** Data Structures, Algorithm Analysis & Design, Computer Architecture, Discrete Structures, Digital Systems
- **Mathematics Coursework:** Linear Algebra, Differential Equations, Higher Math, Calculus I-III

EMPLOYMENT

Undergraduate Teaching Assistant **University at Buffalo** **Aug 2017 – Present**

- Courses: Introduction to Computer Science for Majors I & II
- Teaches new computer science students the fundamentals of Java, object-oriented programming, test-driven development with JUnit tests, design patterns, and basic data structures & algorithms.

Software Engineer Intern **Innovative Systems, Inc.** **May 2018 – Aug 2018**

- Worked with a team to develop schema migration software for company databases using C#, Transact-SQL, and Visual Basic. Now used for company database backups and client-side database installations.
- Built parser in C# to pre-process data from the Dow Jones Anti-Corruption database; optimized space complexity by implementing Simple API for XML.
- Refactored portions of company codebase from Visual Basic to C#.

Head Coding Camp Student Assistant **SHUFSD** **Jun 2016 – Jul 2017**

- 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**

- Deployed by Jekyll static site generator, with data stored in YAML files, templating with Liquid, and blog posts written in Markdown. Hosted on GitHub Pages.
- Utilized: HTML, CSS, JavaScript, Bootstrap, Jekyll, GitHub Pages, Markdown, Liquid, YAML

PomodoroTube **Dec 2018 – Present**

- 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 playing during the “work” phase and users’ subscriptions playing during the “break” phase.
- Integrated YouTube Data API v3 to fetch users’ YouTube subscriptions.
- Utilized: HTML, CSS, JavaScript, YouTube Data API v3, Materialize

Bulk Query **Dec 2018 – Present**

- Developed a React application that stores users’ search queries in tabular format and allows them to perform multiple queries on any website.
- Utilized: React, Node.js, Bootstrap

University at Buffalo Events Scraper **Oct 2018 – Dec 2018**

- Wrote a web scraper in Python using the Selenium Web Browser Automation Framework to extract information from the University at Buffalo events website.
- Users have choice to store extracted information in a JSON, XML, or YAML file.
- Utilized: Python, Selenium

Supreme Logo Generator **Apr 2018 – Aug 2018**

- Wrote a script in JavaScript that reads data from a CSV file and outputs Supreme logos as PNG image files.
- Utilized: JavaScript, Adobe Photoshop Scripting

SKILLS

- **Languages:** Python, Java, C#, JavaScript, HTML, CSS
- **Software:** Git, PyCharm, Eclipse, Visual Studio, Microsoft SQL Server
- **Frameworks:** Bootstrap, Selenium, Flask, Materialize
- **JavaScript:** React, Node.js