Brian Liebe

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Education

Binghamton University, State University of New York   **Dec. 2018 Expected**
Bachelor of Science, Computer Science | **Overall GPA: 3.78** | **Major GPA: 3.85**
Brockport College, State University of New York   **Sept. 2014-May 2015**
Dual-enrollment through Brockport High School (28 college credits)

Technical Skills

Languages: C++, C, C#, Java, Python, Perl, Assembly
Other: Git, Visual Studio, Windows, Linux/Unix, GDB, CUDA, HTML/CSS
Relevant Courses: Computer Systems I, II, & III, Data Structures and Algorithms, Operating Systems, Automata Theory, Design and Analysis of Algorithms, Computer Security, High Performance Computing

Projects

Binghamton University, *C++/CUDA*   Binghamton, NY, **Jan. 2018-Present**
- Implemented a convolutional neural network (CNN) that detected hand-written numbers from the MNIST dataset by actively changing the weights of dense layers with machine learning techniques
- Integrated the CUDA platform by multithreading the training algorithms on a GPU

Universal Instruments Corporation, *C#*   Conklin, NY, **June 2017-Aug. 2017**
- Developed a program that automatically retrieved source files from Git/Bitbucket when an executable was opened in Visual Studio, removing the company's need for a dedicated source file server
- Incorporated a debugging application into the company's debug software which tracked system resource usage
- Created a Jira extension which moved pre-existing development "issues" from ClearQuest to Jira and was compatible with Git

Binghamton University, *CSS/HTML*   Binghamton, NY, **Sept. 2017-Present**
- Designed and styled a personal website (www.brianliebe.me) which uses a GitHub repository

Binghamton University, *Java*   Binghamton, NY, **Sept. 2015-Present**
- Co-wrote a GUI-based program designed to help farmers efficiently rotate crops and livestock to benefit crop yields
- Created a program which parsed data to create detailed statistics for MLB players to aid with fantasy baseball

Extracurricular Experience

Binghamton University, HackBU   Binghamton, NY, **Sept. 2015-Present**
- Attend workshops, seminars, and hackathons

Mountainview College Council, Co-Rec Committee Member   Binghamton, NY, **Sept. 2016-May 2017**
- Work with other members to plan recreational activities serving 1100 Binghamton University students

Binghamton University, ACM Chapter   Binghamton, NY, **Sept. 2015-Present**

Leadership Experience

Binghamton University Computer Science Department, Course Assistant   Binghamton, NY, **Sept. 2017-Dec. 2017**
- Graded the majority of student assignments including essays, bibliographies, discussions, tests, etc.
- Attended classes to aid the professor with in-class assignments, such as presentations and lessons
- Assessed students' grammar, essay structure, and writing habits
- Gained significant organizational skills due to the multitude of responsibilities placed on course assistants

Binghamton University Physics Department, Teaching Assistant   Binghamton, NY, **Sept. 2016-Dec. 2016**
- Led demonstrations and group activities in weekly physics lab for 25 students in addition to grading quizzes

Binghamton University, WHRW Radio Show Member   Binghamton, NY, **Sept. 2016-Present**
- Run a weekly music radio show which requires training two apprentices each semester

Employment

Implementation Engineering Intern, Fidessa Group PLC   Jersey City, NJ, **June 2018-Aug. 2018**
Software Engineering Intern, Universal Instruments Corporation   Conklin, NY, **June 2017-Aug. 2017**
- Worked with other developers on various projects that involved multiple departments and required communication
- Gained knowledge working with issue-tracking and Git file management within a corporate structure

Technical Assistant, Brockport Central School District   Brockport, NY, **June 2014-Aug. 2016**
- Set up and fixed software issues on district computers supporting 3500 students, 700 faculty and staff
- Troubleshooted on a wide range of devices including PCs, laptops, tablets, etc.