Madeline Bocek

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Education

2017–2021	**Bachelor of Science: Computer Science**	*Expected May 2021*
	○ University of Minnesota, Twin Cities	*GPA: 3.6*

Work Experience

June 2019 - Present **TA Instruments** - Eden Prairie, MN
- ○ Using Delphi source code for reference, wrote a MATLAB program to extract data from binary files and plot them as graphs.
- ○ Created a server to host an internal web page by downloading Apache, then designed a web page using HTML5 and CSS. PHP was used to gather input, run a MATLAB executable, and display the resulting graph to the web page.
- ○ Automated user tests for WinTest software using TestComplete and JavaScript.

May 2018 - August 2018 **Stratasys** - Eden Prairie, MN
- ○ Remotely started F900 printers by imitating user actions in TestComplete using JavaScript.
- ○ Synced times of printers in R and D Lab using TestComplete and JavaScript.
- ○ Migrated software verification tests from Excel to TestRail to improve testing efficiency.

Technical Skills

Programming	Python, Java, JavaScript, C, PHP, HTML, CSS , OCAML, MATLAB, Mathmatica, OCAML
Software	Mac OS, Windows, Linux, TestComplete, MS Visual Studios, IntelliJ, Atom, GitHub

Relevant Coursework

Completed Courses	Discrete Math, Intro to Algorithms and Data Structures, Advanced Programming Principles, Machine Architecture, Linear Algebra, Statistics
In Progress	Intro to Operating Systems, Algorithms and Data Structures, Formal Languages and Automata

Activities

2018-2019 **Association for Computing Machinery's Women in Computing** - Member

2017-2019 **Society of Women Engineers** - Mentorship Committee Member
- ○ Delegated 80+ students to groups based on common interests to foster sense of community.
- ○ Strengthen professor, professional, and student connections by holding a networking brunch for 48 people.
- ○ Created presentation and quiz to teach basic insurance information to students.

Projects

- ○ Advanced Programming Principles - Built chat room using OCAML.
- ○ Machine Architecture - Programmed thermometer sensor in x86 assembly.
- ○ Society of Women Engineers - Created Excel macros to track attendance of events.

Awards

- ○ Roger and Ruth Nordby Technology Scholarship
- ○ Minoru and Mary Yoshida Memorial Scholarship
- ○ Deans List: Spring 2018, Fall 2018, Spring 2019