

# Maxwell B. Garber

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## Education University of Pittsburgh (Pittsburgh, PA)

**Computer Engineering**, BSc.

April 2017

**Chemistry and Molecular Biology**, BSc.

April 2012

## Experience

**Full-Stack Web Developer (Co-Op)** *Net Health*

Fall 2015, Summer 2016, Spring 2017

Developed in C#, TypeScript, SQL, and Javascript on an agile-scrum team building a SaaS electronic healthcare records platform and medical facility management suite.

**Research Specialist** *University of Pittsburgh*

May 2012 – Sep 2014

Bioinformatics & genomics of microbial viruses using high-throughput genome sequencing.

Investigated the DNA site-specificity, biochemistry, and biophysics of the Bxb1 viral integrase.

**Undergraduate Researcher** *University of Pittsburgh*

May 2009 – Apr 2012

Mentored and trained other undergraduates in safety, methods, analysis, and presentation.

Investigated the biochemistry & molecular biophysics of site-specific protein-DNA interactions.

**Rowing Coach** *Three Rivers Rowing Association*

Summer 2007 – current (seasonal)

Instructed and managed teams of middle and high school students, learn-to-row camps, competitive teams, and corporate recreational league teams.

## Skills & Coursework

Engineering in object-oriented and functional languages: Java, C, C#, C++, Objective-C, Swift, and Python. Low-level, embedded systems, and FPGA environments: linux kernel extensions, MIPS, and x86. Full-stack web development: TypeScript, JavaScript, and SQL. Analysis and design of electronic circuits and systems, modeling and simulation of physical systems, particularly electromagnetics.

**CS:** *Data Structures, Algorithms, Assembly Language & Computer Organization, Systems Software, Operating Systems, Computer Architecture, and Software Engineering.*

**ECE:** *Linear Circuits & Systems, Circuit Analysis & Design, Electromagnetics, Digital Logic, Digital Systems Laboratory, Modeling & Simulations, Application of Fields & Waves, and Advanced Digital Design.*

## Awards & Honors

Walter C. Snyder Study Abroad Scholarship (*ENSEA, France* 2015)

Samuel D. Colella Award for Undergraduate Research (2010)

Chancellor's Undergraduate Research Fellowship (2010)

Biological Sciences Departmental Mentoring Fellowship (2009 & 2010)

## Foreign Languages & Extracurriculars

**French** (*intermediate*), **Japanese** (*early intermediate*), **Portuguese** (*elementary*), and **Danish** (*beginner*)

**Eagle Scout**, Boy Scouts of America Troop #243 (2007)