Tyler Alterio

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Education

University of Massachusetts Lowell - Summer 2016
B.S. Electrical Engineering and B.S. Computer Science *GPA:* 3.486 • *Dean's List All Semesters*

Professional Work Experience

Amazon (formally PillPack) • **Boston, MA**   **June 2019 to Present**
Software Engineer

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HPE (formally Plexxi) • **Nashua, NH**   **June 2016 to June 2019**
Software Engineer

- Implemented Bidirectional Forwarding Detection protocol in Erlang for agile networking.
- Refactoring of legacy code into OTP (Erlang) applications, using test driven development.
- Development of REST API to access services on switch, using Swagger framework.
- Consulted on fullstack interaction between Python backend and switch services.

University of Massachusetts • **Lowell, MA**   **August 2015 to December 2015**
Research Assistant

- Experimented with P4, an open-source domain-specific network description language.
- Develop method to compile P4 behavioral model into CUDA implementation.

Philips Color Kinetics • **Burlington, MA**   **June 2014 to January 2015**
Firmware Engineer Intern

- Implemented new features in firmware of PIC based devices with MPLAB IDE.
- Created command-line utility in Qt framework to interface with fixtures via UDP.

Skills

- **Languages (proficent in):** C, C++, Python, Bash, Erlang
- **Languages (exposed to):** MATLAB, Clojure, Elixir, Scala
- **Frameworks:** Swagger (for REST APIs)
- **Workflows:** Agile, Scrum, Test Driven Development (TDD)
- **Operating Systems:** Linux (Debian), Mac OS X
- **Virtualization:** Docker, VMware, VirtualBox
- **Lab Equipment:** Oscilloscope, Multimeter, Soldering