

Spencer Pozder

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EDUCATION

Northeastern University, Boston, MA May 2020
Bachelor of Science in Computer Engineering & Computer Science, *Minor* in Mathematics
Master of Science in Computer Engineering, Concentration in Computer Vision, Machine Learning, and Algorithms
GPA: 3.98
Coursework: Software Development, Machine Learning, Computer Vision, Algorithms and Data Structures, Computer Systems, Software Security, Database Design, Big Data & Sparsity, Data Visualization, Graph Theory

TECHNICAL SKILLS

Programming Languages: Python (including Tensorflow & Keras), Ruby, Java, JavaScript, C, C++
Machine Learning Algorithms: Bayesian Classification, Mixture Models, K-Means, Neural Networks
Javascript Frameworks/Containers: AngularJS, RxJS, React, Redux, Node.js
Software: ROS, OpenCV, Git, Perforce, Maven, SolidWorks, MATLAB, MySQL, PostgreSQL, L^AT_EX
Hardware: Oscilloscope, Function Generator, Digital Multimeter, DAQ, FPGA

WORK EXPERIENCE

Panorama Education Boston, MA Jan 2019 – Sep 2019
Co-op – Full-Stack Engineer

- Designed and developed new client-facing features and integrations in Ruby
- Used event-sourcing and domain-driven design paradigms to create versatile information systems
- Provided design insight and suggested code improvements for new data integrations
- Worked with clients to solve integration problems and create new features

VMware Boston, MA Jul 2017 – Dec 2017, May 2018 - Aug 2018
VMware vCloud Director
Co-op – IaaS Software Solutions Engineer

- Developed customer-facing UI features in AngularJS and Redux
- Increased Java REST API support for new UI features
- Expanded database coverage for new features in MSSQL, Oracle SQL and PostgreSQL
- Produced and reviewed production-quality code in an agile development team

Northeastern University, Boston, MA Jan 2018 – Present
Northeastern University Field Robotics Lab
Research Assistant

- Work in a small research team on a UAV project to create an autonomous mission and charging system
- Write C++ control code for a UAV flight planning system
- Collect test data from drones to iterate on software design

Northeastern University, Boston, MA Jun 2016 – Jul 2017
CenSSIS Center for Subsurface Sensing and Imaging System
Research Assistant

- Aided in Millimeter-Wave Imaging System development in VHDL
- Modeled current system and possible improvements in SolidWorks

PROJECT EXPERIENCE

Android/iOS Programming for Boston-wide scavenger hunt Nov 2016, Nov 2017
Independently developed front-end app and back-end API/Database for team scavenger hunt

- Programmed Android and iOS compatible hybrid app in HTML, CSS, and JavaScript (AngularJS/Redux)
- Developed back-end, asynchronous API service on Amazon AWS EC2 server, running Node.js server software
- Managed and provided access to postgresSQL database, hosted on Amazon AWS
- Fixed issues from previous year in second iteration, migrated from postgresSQL to MongoDB

ACADEMIC AWARDS

IEEE Eta Kappa Nu Honor Society Acceptance Dec 2017
Tau Beta Pi Honor Society Acceptance Oct 2016
First Place, 2016 ASEE Northeast Conference Undergraduate Student Team Paper Competition May 2016

OTHER AWARDS

Eagle Scout Award Oct 2014