

Eric Mattison

Software Engineer

Eric Mattison

244 Worthen Road East
Lexington, MA 02421

617.413.0185
emattison@gmail.com

Skills

- Internet of Things interaction using MQTT and AWS IoT publish-subscribe protocols
- Data Pipeline development using SQL databases, S3 and Kinesis
- UX/UI design using Angular, React and Vue JS frameworks
- Real-time data visualization leveraging WebGL/Three, Matplotlib, D3, SVG
- Excellent communication and project management skills for effective definition, design, testing and deployment of complex applications

Experience

iRobot / Senior Software Automation Engineer

SPRING 2019 - PRESENT, BEDFORD, MA

- Created UI applications using MQTT, React, Websockets for real-time IoT display of robots undergoing testing
- Built generalized data pipeline for all applications in Design Automation Engineering division
- Designed and built API backend infrastructure using Python, SQL, Linux and AWS Cloud Services
- Taught internal courses on Python and command-line scripting; Mentored co-op interns

Vertex Pharmaceuticals / Senior Web Developer

SPRING 2015 - SPRING 2019, BOSTON, MA

- Acted as an in-house resource for Internet of Things projects, building both hardware and software
- Led initiative to create api.vrtx.com, Vertex's API management system
- Created commuter monitoring application transit.vrtx.com, displaying public transit and parking statistics dynamically with Highcharts JS and Angular
- Used Flask, JQuery and MySQL to build a web-based biological medium ordering system providing department-based usage with excel reports

Harvard Research Computing Services / Senior Web Developer

WINTER 2011 - SPRING 2015, CAMBRIDGE, MA

- Created Account Management System using Django MVC, Python, MySQL and Linux to integrate Windows Active Directory, RequestTracker ticketing software and SPINAL LIMS and billing application
- Used LDAP authentication and Python shell scripts to add new instrument usage tracking functionality to NorthWest Biolab scheduling application
- Built real-time data-driven application for MRI visualization using open-source javascript packages

Education

Harvard University / Masters in IT Management
SPRING 2009, CAMBRIDGE, MA

Clark University / Bachelor of Arts
SPRING 1998, WORCESTER, MA

Activities

Member, Boston Python and Django Meetup Groups