MICHAEL A. PLATT

Senior Software Engineer

CONTACT

757-218-7165
michael.platt.07@gmail.com
www.github.com/michaelplatt07

PROFILE

Senior developer with over ten years of experience in solving complex problems, designing and shipping features, debugging and troubleshooting bugs in code, and mentoring new developers. Proven track record of reliability in meeting deadlines and ability to work across multifunctional teams to ensure a successful product. Strong passion for improving developers' experiences through tooling and widgets.

SKILLS & TECHNOLOGIES

Java / Spring / Hibernate
Python / Django
MongoDB, MySQL, Postgres
Docker, Ansible
NodeJS, React, Angular
RabbitQM, Kafka

EDUCATION

Christopher Newport University
Newport News, Virginia

2007-2011
BS in Computer Science
BS in Computer Engineering

EXPERIENCE (Continued on following page)

Senior Software Engineer, Routable (Remote)

August 2020 - Current

- Architected and implemented a distributed payment system for international payments via RabbitMQ as a high value source of revenue for the company.
- Took lead on development of the Internal Tools Team to provide support with view into the database and features to correct data in bad states, as well as leading the customer-facing API to implement international capabilities while onboarding and building a fully-functional team.
- Lead weekly Python dojos for developers to gain experience with Test-Driven Development and design principles.
- Worked as a key member in redesigning of Django backend system to improve code flexibility, maintainability, and improve development of new features.

Backend Engineer, EdLogics (Remote)

November 2019 – August 2020

- Designed and built multiple proofs of concept, including asynchronous processing using RabbitMQ and Java to improve scalability of platform and reduce cost of data processing, and integrations to third party fitness applications using Garmin and Google Fit.
- Successfully analyzed site use, user engagement, and other key pieces of data for platform improvement through creation of new metric reports in Looker.
- Solely maintained Legacy React frontend and Java backend application during migration to new platform.
- Built and revised tables in Postgres to normalize database and optimize queries.

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EXPERIENCE (Continued)

Contractor, Trusted QA

March 2019 – November 2019

- Created new Netbeans plugins through Netbeans API and Java for new government asset tracking.
- Contributed to maintenance of custom fork of WorldWind (NASA Library) by implementing new features, and resolving conflicts and updates from master JAR.
- Provided mentorship to new developers through code review of pull requests, walk-throughs of current and newly developing features, and paired programming sessions.
- Updated Jenkins CI/CD cycle to include new paths for automated building and deployment of Maven projects.

Backend Engineer, Metrica Sports (Remote)

July 2018 – January 2019

- Designed new endpoints in Node and Express that successfully ingested large amounts of soccer player data that were then inputted into algorithms that calculated key metrics, including player top speed, distance travelled, and heatmaps.
- Integrated Node endpoints into Electron application for frontend developer access to enable rendering of data through UI.

Backend Engineer, Pluvio Inc. (Remote)

January 2018 – July 2018

- Reported directly to CTO as key developer in implementing new features for JavaScript library.
- Designed and implemented new endpoints on backend using Python and Flask to ingest data served from JavaScript library, as well as new MongoDB models to easily store and access collected data.
- Worked with clients to gather non-technical requirements and convert into technical specifications and new features.
- Lead the project that implemented 100% test coverage of product using Chai and Nose to provide greater confidence in shipping new features.

Contractor, Analytical Mechanics Associates

June 2016 – January 2018

- Implemented new product endpoints through Django and Python to serve results processing of data through various algorithms and developed frontend features using Cesium library to enable user selection of area for various data analysis including water turbidity, costal erosion, and more.
- Collaborated with stakeholders to build Jupyter notebooks that could be used for demonstrations and sales pitches.
- Lead project implementing automated testing of UI and backend services via Selenium test suite to set standard for tested code company-wide, and worked successfully within a team to use Ruby to implement requested websites for interactive exhibit at a local museum.
- Leveraged Pandas to implement complex mathematical algorithms across hundreds of gigabytes of geospatial data.

FURTHER WORK EXPERIENCE IS AVAILABLE UPON REQUEST.