David R. Saeva

drsaeva@gmail.com ● (585) 261-5771 ● drsaeva.github.io ● **Baltimore, MD 21201**

SUMMARY

Node.js developer experienced building cloud-native RESTful applications. At home in an AGILE, DevOps environment.

TOOLBOX

Frontend: JavaScript ES6 ● HTML/CSS/SASS ● React.js ● Angular 1.x/2+ ● TypeScript

API: REST/SOAP ● Node.js ● Express.js ● Java ● Spring/Spring Boot

Data Layer: PostgreSQL ● PL/SQL

Testing: Protractor/Cucumber ● Jasmine/Karma ● Mocha/Chai ● JUnit/Mockito

Scripting: Python ● Groovy ● Bash ● Perl

DevOps: Bitbucket ● Github ● Docker ● Jenkins ● Amazon Web Services ● Azure

Environments: Red Hat Linux ● OS X ● Windows

Power Skills: Creativity ● Problem Solving ● Assertiveness ● AGILE ● Technical Communication

RELEVANT EMPLOYMENT AND EXPERIENCE

Peraton (Northrop Grumman Heritage)
Northrop Grumman, Woodlawn, MD — *Principal Software Development Analyst*

MAY 2019 - PRESENT

Backend Node.js developer on a project with a federal agency to implement a disability benefits administration system. Member of a large team in a DevOps environment using an AGILE methodology, focusing on meeting a tight feature release deadline while modernizing the existing code base to ES6 standards.

- Rewrote a callback-driven **REST** application stack that resides in **AWS** using **Express.js**, **knex.js**, and **PostgreSQL** to leverage **ES6 promises**, **async/await**, and modularized architecture, routing, and logging practices. Collaborated on refactoring efforts up through the major release of this rewrite. Implemented new **REST API** routes for business needs.
- Developed modularized presentation layer code using **HTML**, **Sass**, **Handlebars.js**, and **ES6** to be ultimately served as PDFs via **Express.js** and **Puppeteer** to a distributed, national client base numbering in the millions of users
- Developed a task/project management suite for internal usage in **React.js**, with a containerized **Node.js** backend and a managed **PostgreSQL** instance. Hosted in **Azure**, leveraging **Azure AD** for authentication and session management.
- Collaborated in an **Agile** team environment with dozens of stakeholders and a nation-wide user base scaling to millions..

Capital One Financial Corporation, McLean, VA — *Software Developer*

JULY 2018 - MAY 2019

Full-stack Java 8 and Node.js developer on a team of six in a mature DevOps environment using an AGILE methodology. Development efforts focused on feature releases and paying down existing technical debt to improve our team's release SLA.

- Designed and implemented a pattern for refactoring my team's **Node.js REST API Microservice** to componentize the existing code base. Implemented a new **SOAP** call to a downstream dependency leveraging this pattern. Lead a larger refactoring effort for the remaining SOAP calls in this API, coordinating with three other teammates and serving as the primary point-of-contact on this effort for management.
- Refactored a **REST API Microservice** written in **Java 8** leveraging **Spring** from **SSL**- to **OAuth2**-based authentication. Further refactored the same application to sunset a vendor API in favor of an in-house managed resource. Developed a POC refactor for that same API in **Node.js**, **Typescript**, and **Nest.js**.
- Wrote a command-line app in **Node.js** and **TypeScript** to enable reliable, transactional updates to the properties file to enable a 1-day SLA for updates to the file, a vast improvement over the vendor's 3-week SLA for similar DB changes.

Architected a strategy for migrating the property file to **AWS S3**, including secure retrieval, updates via **AWS Lambda**, and a POC UI in **Angular 6** that would enable file updates to be performed by product owners.

- Updated existing **Jenkins** pipelines and infrastructure configuration-as-code to reduce boilerplate and improve maintainability. Enabled daytime live releases to the production environment. Performed pipeline-managed **continuous deployment** releases of **Docker** containers across all environments in **AWS** to cloud architecture leveraging **Route 53**, **S3**, **EC2**, and **ECS**.
- Wrote automation tests for an **Angular.js** frontend with **TypeScript**, **Protractor**, and **Cucumber** for my team's feature. Implemented and released UI updates to the same frontend feature as directed by product owners.
- Provided support, troubleshooting, and issue resolution for all consumers of my team's feature across all environments using **CloudWatch**, **SNS**, **Splunk**, and other utilities.
- Collaborated in an **Agile** team environment.

Revature LLC, Reston, VA — *Software Developer*
FEBRUARY 2018 - MAY 2019

Trained and employed as a full stack software developer specializing in development of **RESTful applications** and **microservices** for enterprise clients.

- Trained in a variety of full stack technologies specific to enterprise software development, including **Java 8, Spring/Spring Boot, Microservices, Amazon Web Services, REST, TypeScript, Angular 5, PL/SQL, JavaScript ES 6, JUnit/Mockito, Jasmine/Karma, Pivotal Cloud Foundry,** and **Jenkins**.
- Engineered a **Microservice** ecosystem in **Java 8** leveraging **Netflix OSS (Zuul, Hystrix, Eureka)** and **Kafka MQ** from an existing monolith and integrated it into an **Angular 5** frontend.
- Developed a full-stack web application in **Java 8**, **Angular 5**, and **PL/SQL** hosted on **AWS** in a **VPC** environment using **EC2** and **RDS**
- Collaborated in an **Agile** team environment

Cubix Health Technologies, Baltimore, MD — *Developer*
NOVEMBER 2016 - MAY 2017

Development in **Python** for a medical visualization technology startup using machine learning as a member of a small team.

Johns Hopkins University AAP, Baltimore, MD — *Graduate Student*
MAY 2016 - AUGUST 2017

Engaged in graduate coursework in computer science (bioinformatics). Completed several projects, including:
R: statistical analyses of gene expression in sleep apnea patients using machine learning
Full stack development with **HTML5** and **JS:** bacterial gene search engine, force-directed graph of an ontology
Object-oriented programming in **Java 8** and **Python:** sorting algorithms, data structures, trees, basic UIs

Maryland DHMH, Baltimore, MD — *Data Entry Operator*
MAY 2016 - NOVEMBER 2016

QA and manual entry of HIV patient records against state database. Developed a **Java** application to automate an existing data entry workflow with the intent to reduce manual operator workload by 10%:
Designed file-driven I/O flow to parse scanned HIV medical records
Parsed data from scanned reports using optical character recognition
Automated entry of data into existing frontend with **Selenium**

Regularly discussed project requirements and progress with non-technical supervisors.

University of Maryland Baltimore, MD — *Graduate Research Assistant in Biochemistry*
JULY 2014 - OCTOBER 2015

Engaged in independent research and coordinated efforts with colleagues. Developed a series of **Perl** scripts:
Cross-referenced data from cancer gene expression databases to find matching genes in lymphoma studies
Identified matching genes containing sequences (strings) closely matching a sequence of interest
Pushed data to and from an ad-hoc **SQL** database, using it to guide experiments in the wet laboratory

Regularly discussed progress on projects, including lay summaries of code, with supervisors and collaborators.

EDUCATION

JOHNS HOPKINS UNIVERSITY	● Baltimore, MD (*Aug '17*)	● Graduate coursework in Bioinformatics
UNIVERSITY OF MARYLAND	● Baltimore, MD (*Oct '15*)	● Graduate coursework in Biochemistry
SUNY COLLEGE AT BROCKPORT	● Brockport, NY (*May '14*)	● Bachelor of Science in Biochemistry
SUNY PURCHASE COLLEGE	● Purchase, NY (*May '10*)	● Bachelor of Music in Performance