



Eric Benedetto

Full-Stack Developer

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Education

Macaulay Honors College at The City University of New York (Computer Science B.S., M.S)

08/2018 - Present

- Combined Bachelor & Masters of Computer Science (B.S. Jan 2022, M.S. May 2023)
- Courses: Data Structures, Algorithms, Assembly, Computer Architecture, Operating Systems, Database Theory, Advanced Topics in Simulation, Discrete Math, Calc I-III, Linear Algebra

Skills

Programming: JavaScript, Node.js, React (and other JS Frameworks), Python, Java, PHP, C++, HTML, CSS, SASS, SQL, GraphQL

Technologies: Kubernetes, Docker, Git, MongoDB, Google Cloud Platform, IBM Cloud, Digital Ocean, Heroku, QGIS, CartoDB, Webpack, NPM, ORMs, Yarn, Babel, WordPress

Experience

Full-Stack Developer - NYC Mayor's Office of Environmental Remediation

09/2019 - Present

- Improve internal data management of 600,000+ tons of soil across thousands of sites for the [NYC Clean Soil Bank Program](#) by developing a Full-Stack solution using the **MERN Stack (MySQL, ExpressJS, ReactJS, NodeJS)** and **Docker with Kubernetes**.
- Automate generating reports for the Clean Soil Bank to provide annual GHG (Greenhouse Gas) Emissions Savings through the Program.
- Maximize system uptime for 700,000+ monthly users by monitoring Back-End and Front-End hosting and deployment of Cloud Services using **Google Cloud Platform, Azure Services, Docker and Kubernetes** for [SPEED2.0](#) and a **VPS on CentOS** for the Clean Soil Bank.
- Reduce manual update times by over 70% by automating data validation, scraping, and sanitization for [SPEED2.0](#) datasets using **Python, Excel, QGIS, NYC OpenData** to provide the most up to date information on hazards and rehabilitation sites in NYC to environmentalists.

Links: <https://nyc.gov/speed>, <https://nyc.gov/oer>, <https://csbapp.info>

Senior Software Developer/Consultant - Soulful Synergy (Contract)

05/2021 - 10/2021

- Provide technical consultation to the business team in order to translate business requirements into technical requirements.
- Produce design plans, mockups, and tech stacks for projects in order to create rigid timelines and efficient development.
- Deliver technical documents, plans, expectations, and requirements to interns to create a productive and professional work environment.
- Decrease slack time by monitoring progress and providing feedback to interns and the business team upon completion of project milestones.

Links: <https://soulfulsynergy.org>

College Teaching Assistant - College of Staten Island

06/2021 - 08/2021

- Assisted instructing an Interview Prep Course to upperclassmen in a high-level Advanced Data Structures summer course.
- Led group sessions on solving coding problems using Leetcode and Hackerrank.
- Taught students common Data Structures and Algorithms used in Software Engineering

Technical Consultant - Life3

03/2020 - 09/2021

- Optimized technical architecture and costs by translating business requirements to technical requirements.
- Increased the speed of development sprints across projects through code reviews, management tools such as **JIRA**, and proper **Source Control** with **CI/CD** using **GitHub**.
- Contributed to interns' abilities as Software Engineers by teaching them how to effectively read documentation, debug, and ask for help in an **Agile Development** environment.

Full-Stack Developer - StatenWeb (Contract)

06/2019 - 11/2019

- Produced wireframes, POCs, MVPs, and other custom solutions for deployment with **React.js, HTML, CSS, SASS, etc.**
- Expanded clients' abilities to create and edit content by developing scalable, managed applications and plugins in **PHP** that interface with **WordPress CMS**.
- Automated updates with **Python** scripts and **Cron jobs** to scrape and parse information from public data sources for clients' applications.

Projects

Snatcher - <https://snatcher.link/>

10/2020 - 06/2021

- Created a **Cloud-Based** URL Shortener with tracking capabilities and other analytics to allow users to track stolen devices, hacked accounts, email/marketing campaigns, etc.
- Designed a scalable **Microservice Architecture** using the **MERN Stack (MySQL, ExpressJS, ReactJS, NodeJS)** and **Docker with Kubernetes** on **Digital Ocean**.
- Used a **DMZ (Demilitarized Zone)** to follow **Microservice Design Patterns** in order to expose our **API Gateway** and Front-End Web Services through an **Ingress** which proxies all requests from the client to internal services using **vhost** and **Domain Based Routing**
- Implemented **Twilio SMS & PayPal Payment APIs** to allow users to pay-per-link to send anonymous texts with tracking links embedded.
- Leveraged **Google Maps API** in order to show in-depth metrics about locations and IPs where links were accessed.
- Incorporated Rate Limiting, Captchas, and Slow Downs to prevent spamming and excessive server-load.

Clubs & Leadership Activities

MHC++, Club President - Macaulay Honors College

03/2020 - Present

- Organize events to help over 80 students gain industry Computer Science skills while in college.
- Lead groups in teaching skills, networking, and expanding their knowledge for post-graduation opportunities.

Node.js Workshop Instructor - City University of New York

08/2020 - 08/2020

- Assisted instructing over 80 college students in a **Node.js** Crash Course Workshop.
- Taught students various concepts such as **Typed Languages, Package Managers, Server-Side Rendering, Node.js API with Express.js**.
- Led the development of an **IBM Watson Cloud** Chatbot Application using **Node.js** with students.

Links: <https://github.com/ericbenedetto16/ibm-watson-assistant-demo>