Eric Benedetto
Full-Stack Developer

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Education

M.S. Computer Science - *College of Staten Island – CUNY*   **08/2021 – 05/2023**
B.S. Computer Science (with Honors) - *Macaulay Honors College – CUNY*   **08/2018 – 12/2021**

Skills

Programming: JavaScript, TypeScript, Node.js, React, Express.js, Python, Java, PHP, C++, HTML, CSS, SQL
Technologies: Kubernetes, Docker, Git, MongoDB, Google Cloud Platform, IBM Cloud, Digital Ocean, Heroku, QGIS, ArcGIS, CartoDB, Webpack, NPM, ORMs, Yarn, Babel, WordPress

Experience

Full Stack Developer - *NYC Mayor's Office of Environmental Remediation*   **09/2019 – Present**
- Develop and maintain a **Cloud-Based** Full-Stack Web App to improve internal data management of 600,000+ tons of soil across thousands of sites for the NYC Clean Soil Bank Program using the **MERN Stack (MySQL, ExpressJS, ReactJS, NodeJS)** and **Docker** with **Kubernetes**.
- Automate report generation to provide annual Greenhouse Gas Emissions Savings in the Clean Soil Bank.
- Maximize system uptime for 700,000+ users by maintaining Back End and Front End services using **Google Cloud Platform, Docker,** and **Kubernetes** for SPEED2.0 and a **VPS on CentOS** for the Clean Soil Bank.
- Reduce dataset update times by 70%+ by automating validation, scraping, and sanitization using **Python, Excel, QGIS, NYC OpenData** to deliver the newest data to environmentalists.
- Parse and analyze over 10,000,000 property tax records to generate reports on tax revenue generated.
Links: https://nyc.gov/speed, https://nyc.gov/oer, https://csbapp.info

Senior Software Developer/Consultant – *Soulful Synergy (Contract)*   **05/2021 – 10/2021**
- Provided consultation to the business team to translate business needs into technical requirements.
- Produced designs, mockups, and system requirements to create rigid timelines and efficient development.
- Delivered technical documents, expectations, and requirements to interns to create a productive workspace.
- Built a responsive and modern **Wordpress** theme using **HTML**, **CSS**, **JavaScript**, and **PHP**.
Links: https://soulfulsynergy.org

Technical Consultant – *Life3*   **03/2021 – 09/2021**
- Optimized technical architecture and costs by translating business requirements to technical requirements.
- Reduced sprint times in code reviews, management on **JIRA**, and **Source Control** & **CI/CD** on **GitHub**.
- Taught interns to effectively read documentation, debug, and ask for help during **Agile Development**.

Full Stack Developer – *StatenWeb (Contract)*   **06/2019 – 11/2019**
- Produced wireframes, POCs, MVPs, and other solutions for clients with **React.js, HTML, CSS, SASS, etc.**
- Enhanced clients' abilities manage content by developing scalable **WordPress** plugins using **PHP** & **React**.
- Automated updates with **Python** scripts and **Cron jobs** to scrape and parse application data.

Projects

Snatcher   **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** 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** 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.
Links: https://snatcher.link/