



Joe Nathan Abellard

SOFTWARE ENGINEER

Brooklyn, NY

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Education

New York City College of Technology

BTECH IN COMPUTER ENGINEERING

Brooklyn, NY

Sep. 2012 - June 2017

- 3.6/4.0 GPA and Magna Cum Laude distinction.
- Served as Academic Excellence Chairperson for the school's National Society of Black Engineers (NSBE) chapter.

Skills

Programming Languages C, C++, Python, Javascript, CSS, and HTML

Web Frameworks Node, Express, Django, and Django Rest Framework

Servers and Databases Apache, Nginx, WSGI, and Unicorn; MySQL, PostgreSQL, MongoDB, and Redis

Development Tools and Devops Git, and Gulp; SSH, Bash, Shell Scripting, Docker, Kubernetes, and AWS devops tools

API Development HTTP/HTTPS, REST, GraphQL, OAuth, JWT, RAML, and Openapi/Swagger

Cloud Platforms AWS, Digital Ocean, and Heroku

System Programming UNIX/Linux system programming API, Linux Kernel, TCP/IP Sockets, Pthreads, C++ STL, Glibc, GCC, GDB, Make, Binutils, Yacc/Bison, Lex/Flex, and Doxygen

Projects

Text Storage and Sharing Platform

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- Integrated with the Stripe API to manage subscriptions and payments.
- Implemented OAuth authentication with Google+ as a provider.
- Implemented API admin interface to execute maintenance tasks.
- Built CI/CD pipeline with AWS CodePipeline to automate deployments.
- Deployed to AWS Elastic Beanstalk, and used AWS S3 to store static and media assets.
- Documented API endpoints with Openapi.

Youtube Video to Audio Converter/Downloader Service

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- Implemented asynchronous video conversion with Celery and RabbitMQ.
- Implemented API admin interface to execute maintenance tasks.
- Implemented throttling policies to limit user request rates.
- Documented API endpoints with Openapi.

We Build Black Members Portal API

BACKEND LEAD

- Integrated with the Stripe API to handle subscriptions and payments.
- Implemented OAuth authentication with Google+ as a provider.
- Documented API endpoints with Openapi.

Base 64 Encoder/Decoder Microservice

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- Containerized the service with Docker and deployed it to AWS Elastic Beanstalk.
- Built a CI/CD pipeline with AWS CodePipeline to automate deployments.

Data Structure Library

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- Implemented support for the following containers: linked list, stack, queue, vector, hash table, binary search tree, binary heap, and graph.

UNIX/Linux Shell

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- Implemented the following features: bash-like grammar, command line editing, job control, built-in commands, and man page-style documentation.

Work Experience

Freelance Software Development

FREELANCE SOFTWARE ENGINEER

- Freelance software development.

Brooklyn, NY

Nov. 2018 - Present

Dialogue Direct

IT COORDINATOR

- Configured and managed desktops, laptops, mobile devices, office phones, and printers.
- Provided on-site and remote tech support on demand.
- Administer on-site file server and domain controller.
- Maintained websites and web hosting configurations.
- Integrated email encryption service to meet critical business needs.
- Maintained business relationships with third party vendors such as PC Connection, T-Mobile, and Apple.

New York, NY

May 2018 - Nov. 2018

Peer-Led Team Learning Program, New York City College of Technology

PEER LEADER

- Led workshops that engage students in teamwork to solve challenging math problems.
- Applied various learning theories to foster students' development and problem solving skills.

Brooklyn, NY

Sep. 2013 - June 2017