Joshua Alphonse

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EDUCATION

Flatiron School   *New York, NY*
Full Stack Web Development Immersive Boot Camp   *Winter 2018 - Spring 2019*
University at Albany, State University of New York   *Albany, NY*
Bachelor of Science in Computer Science and Applied Mathematics; Concentration: Data Analytics   *Fall 2013 - Spring 2018*
Minor: Information Technology and Mathematics

WORK EXPERIENCE

Overit Media   *Albany, NY*
Backend Developer   *Fall 2017 - Spring 2018*
- Created and maintained **a Ruby on Rails backend** asset database for managing equipment inventory that greatly improved office productivity
- Integrated rials with AWS lambda to run a serverless API.

New York State Office of Information Technology   *Albany, NY*
Backend Developer   *Summer 2016 - Summer 2017*
- Led development and created complex SQL queries and **ETL** mappings using **SSIS** to extract the data from multiple source systems that comprise databases such as SQL Server and DB2 for New York State's resource planning application
- Consolidated extensive follow-up procedures to obtain, update, and validate information with regular quality control checks
- Wrote over 30 technical documents, including business requirements consisting of functional and technical specifications
- Managed and planned the development of 46 weekly and eleven monthly CPO, and COO metrics reports
- Performed impact analysis and presented findings to team to improve strategies and operations
- Analyzed client's business requirements to recommend and design technological improvements to their processes and operation procedures

Western Suffolk BOCES   *Dix Hills, NY*
Paraprofessional   *Summer 2015 – Summer 2016*
- Provided educational and social development assistance to special education students with a variety of disabilities, including learning disabilities, emotional disturbance, autism spectrum disorders, ADHD, developmental disabilities, and communication disorders

TECHNICAL PROJECTS

Shleep   *In Development 2019*
A public transit GPS alarm navigation app for iPhone and Bose Augmented Reality devices
- **Bose AR @ The Company Challenge Grand Prize Winner**
- Built with **Swift** programming language and integrated with Bose Augmented Reality SDK to connect devices and provide a sensor driven audio experience
- Employs Google Maps SDK for turn by turn directions

AlgoRhythm Digital Audio Workstation - AlgoRhythm Client | Demo   *Completed Spring 2019*
A digital audio workstation web app built for the open source music community
- Developed a **Ruby on Rails** backend to store user data implemented with JWT Token Storage
- Used **React** to build encapsulated instrument components
- Configured *Web Audio Font* to allow external MIDI Input

KeyTone - KeyTone | Demo   *Completed Winter 2018*
*A Vanilla **JavaScript** drum machine and synthesizer*
- Created an interactive music experience in the browser using the Tone.JS framework
- Constructed custom algorithms to create sound synthesis

Movie Miner - Movie Miner   *Completed Spring 2017*
*A **Python** crowdsourcing application to predict current popular movies*
- Utilized Twitter REST Search API Tweepy in conjunction with OnConnect Data Delivery API to provide a list of current movie titles for a certain geological area
- Implemented Data Exploration techniques to find potential patterns and features that can be utilized to classify tweets
- Generated a classification model to remove tweets that are not relevant using training data
- Applied clustering techniques to group the relevant tweets into different movie title buckets

TECHNICAL SKILLS

Programming Languages & Frameworks
JavaScript, Java, C, C++, Ruby, SQL, MySQL, Python, Go, Swift, HTML, CSS, React, Redux, Rails, PHP, Node.js,TypeScript

Technical Environment & Tools
WordPress, MS SQL 2014, SSRS, SSIS, SharePoint, Linux,Agile Scrum, Heroku, AWS, PostgresSQL, ETL

AWARDS

Bose AR @ Company NYC Pitch Challenge
Grand Prize winner for my application Shleep. An Augmented reality public transit, GPS alarm application that uses Bose's new AR devices to calculate your head's position so that subway commuters don't fall asleep while traveling and miss their stops.
Competition Details Competition Recap Video

The Startup Bus & J.P. Morgan Chase Pitch Competition.
Selected developer/entrepreneur to the Advancing Black Pathway's bus sponsored by J.P. Morgan Chase. I created and launched a startup while traveling on a bus within 72 hours from New York to New Orleans.
The Startup Bus Details