

BEN MILLER

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OBJECTIVE

To obtain a position where I can utilize and develop my knowledge and experience as an Engineer towards influential development projects.

SKILLS

<u>Technologies</u>	<u>Languages</u>	<u>Technical Tools</u>	<u>Management Tools</u>	<u>Concepts</u>
Front-End Frameworks (Handlebars, React)	HTML 5 / CSS 3	Linux, Terminal	Continuous Integration (Travis CI)	Object Oriented Programming
Data Analysis (Numpy, Mathplotlib, Jupyter)	JavaScript (Browser & Node)	Git Commands (Github, Bitbucket)	Agile, Sprints, Scrum	Inheritance (Classical, Prototypical)
Unit Testing	Bash	Vim, Pycharm, VSCode	Trello	Relational Databases
Back-End Frameworks (Django, Express)	Visual Basic	Virtual Environments	Sharepoint	User Interface Patterns (Model-View-Controller)
Databases (MySQL, SQLite, Mongo)	Python (2 & 3)	SSH, FTP	MS Teams, Slack	REST APIs, CRUD

PROJECTS

PlaceTraq [\[placetraq.com\]](http://placetraq.com)

- Developed web tool that helps users stay updated on local construction projects, using modified MERN stack
- Utilized React framework and reusable components for efficient DRY programming practices and data rendering
- Applied authentication and authorization with bcrypt hashing to secure user and group accounts
- Organized project using Model-View-Controller (MVC) design pattern to separate project concerns

Pyflo [\[github.com/benjiyamin/pyflo\]](https://github.com/benjiyamin/pyflo)

- Created an open-source library for performing hydraulic and hydrologic computations, written in Python
- Maintained master branch of project with other contributors
- Produced iterative process for modeling simulations using a node/link system
- Wrote dozens of unit tests to automate maintenance of quality

Other Projects

- **Pysize:** Lightweight tool for converting quantities between defined units
- **djangocms-listyle, djangocms-googlecalendar:** Plugins for the Django CMS platform

WORK EXPERIENCE

Engineer III, RS&H, Jacksonville and Orlando, FL

Aug. 2014 – Present

- Used Python and ArcGIS to export geospatial data to Excel calculations
- Created scripts to automate CAD standard quality assurance (Heavily utilized by other engineers)
- Led efforts within company to transition from 2D to 3D based civil design
- Developed methodology for calculating river turbidity during construction with Excel VBA using an iterative process
- Constructed 3D models to ensure efficient utilization of right of way and design standards

Engineer I, Atkins Global, Pensacola, FL

Mar. 2013 – Aug. 2014

- Programmed macros using VBA and Excel to automate generation of table-based computations
- Became primary EIT level engineer performing hydrology and other drainage calculations within firm

Intern, Capital Engineering & Surveying Inc., Tallahassee, FL

Aug. 2012 – Mar. 2013

- Used ArcGIS and AutoCAD Civil 3D to map storm system pipe defects by priority
- Utilized AutoCAD Civil 3D to calculate and organize depth-based prices for rehabilitation bids

EDUCATION

UCF Coding Bootcamp

Orlando, FL
Full Stack Development

Completed: August 2019

Florida State University

FAMU-FSU College of Engineering, Tallahassee, FL
Bachelor of Science, Civil Engineering

Graduated: December 15, 2012

GITHUB & CERTIFICATIONS

<https://github.com/benjiyamin>

Profession Engineer: FL-83181, SC-34341