Michael Street

Washington, DC

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Skilled Agile leader and developer with an extensive past performance in applied python to build and test a variety of applications. Knowledgeable in modern front-end web application development, database design and automated testing.

Work Experience

Senior Consultant/CTO, Aligned Development Strategies, Inc.   11/2016 - Present

- Orchestrated Agile project teams as CSM to deliver custom SharePoint and other browser-based applications (JavaScript, HTML/XML, CSS, ASP .NET, C#) for federal and local clients.
- Instituted Agile best practices in house to deliver ASP .NET and PHP applications including WordPress as a CMS.
- Led QA/QC team for client web application testing, wrote unit tests following BDD principles, validated Section 508 compliance of applications, wrote unit tests via `unittest` and execution via Selenium WebDriver.
- Conducted Medicaid data analysis using `pandas` including pattern matching and visualizations via `matplotlib` to track fraud, waste and abuse.
- Administered Microsoft Azure Hybrid Network including VM and DB provisioning, constructing SNGs, administer AAD.

Founder & Executive Director, Black Men Code, Inc.   8/2015 – 11/2016 - Atlanta, GA

- Established a computer science training academy for underrepresented minorities teaching Python, JavaScript/HTML/CSS, Data Visualization, UX/UI, jQuery, RESTful services and Docker.
- Developed a network of 700+ volunteers and participants through event planning and targeted marketing.
- Partnered with both national and local high-technology companies to establish participant job pipelines.

Director of Research, Pattern R+D   10/2015 – 5/2016 - Atlanta, GA

- Developed automated quality assurance checks on in-house analysis and simulation tools via `unittest`
- Built custom python plugins for large-scale geometric manipulation of shapes for iterative evaluation of energy consumption

Visiting Scientist, Oak Ridge national laboratory

1/2015 – 8/2015 - Oak Ridge, TN

- Led software development for both the autonomous controls and optimal HVAC sizing of nation's 1st 3D printed, autonomous, off-grid home; 2 engineers, 1 intern, 3 principal investigators
- Built mixed integer linear program (MILP) executed in Python via Gurobi over remote SSH

Visiting Scientist, Fraunhofer ISE

6/2014 – 12/2014 - Freiburg, GR

- Developed a method to computationally model a novel façade integrated ventilation system in Python as a Functional Mock Up (FMU) via `pyfmi` for client sponsored R&D.
- Managed 3 collaborating scientists to develop client reports, modeling hypotheses, model performance indicators, unit testing and system architecture.

Side Projects

Evercalc – A calculator to determine the quoted exchange rate on Evercoin and compare to global averages.

Map-vis – A three-part intermediate series on data visualization in python for HS students.

Tetris – A take on the classic arcade game written in python.

Education

Georgia Institute of Technology	Ph.D., Building Technology	8/2013 – 12/2016
Massachusetts Institute of Technology	M.S., Building Technology	8/2011 – 1/2013
Morehouse College	B.S., Physics	8/2007 – 5/2011

Technical Skills

Python (Anaconda/Miniconda, pandas, matplotlib, numpy, OOP, unittest, selenium), JavaScript (jQuery, npm), HTML/CSS, Matlab, VMWare, MySQL, Git, Linux, WordPress

Certified Scrum Master (CSM)
Certified Cyber Security Fundamentals (CSX)