Victor Brunell Software Engineer

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SKILLS

Python, C/C++, SQL, Mongo, Solr, Git, Unix/Linux, Bash, DevOps, Restful APIs, Flask, Docker, RabbitMQ, Google Cloud Platform, AWS, Data Engineering, Data Pipelines, Compiler Design

EDUCATION

Florida State University

MS in Computer Science

2015 – 2017

GPA: 4.0

Thesis: Dependency Collapsing in Instruction-Level Parallel Architectures

http://www.cs.fsu.edu/~whalley/papers/brunell_thesis17.pdf

BA in Asian Studies

EXPERIENCE

Software Engineer, CoStar Group Orlando, FL 2018 – Present

- Member of an Agile engineering team tasked with delivering enterprise real estate data.
- Developed and maintained a multi-process data pipeline responsible for processing hundreds of data feeds daily with high availability.
- Developed software using Python, Perl, SQL, Mongo, and Solr.
- Developed new features, standalone programs, bug fixes, optimizations, and internal tools.
- Built unit tests and performed integration tests.
- Updated legacy Perl pipeline segments and tools to Python.
- Maintained development and production Linux servers.

IT Integration Analyst II, Tallahassee Memorial Hospital Tallahassee, FL 2017 – 2018

- Developed code to interface medical systems with EMR systems.
- Built interfaces and scripts in the Cerner backend using CCL and Open Engine.
- Developed tools using C#/.NET to analyze data processed by the TMH integration engine.

Research Assistant, Florida State University Tallahassee, FL 2016 – 2017

- Developed compiler optimizations, ALU designs, and CPU simulators in C and ADL.
- Assisted in computer architecture and optimizing compiler research.
- Part of a multi-university research team working to develop novel compiler optimizations for superscalar architectures.

Teaching Assistant, Florida State University Tallahassee, FL 2015 – 2016

- Assisted in teaching the following undergraduate computer science courses:
  - Object-oriented Programming (C++)
  - Computer Organization I
  - Data Structures and Algorithm Analysis