

Victor Brunell

Software Engineer – MS in Computer Science

Orlando, FL | Phone: (772) 214-0428 | Email: vjb.tally@gmail.com | LI: [linkedin.com/in/victor-brunell](https://www.linkedin.com/in/victor-brunell)

EXPERIENCE

Software Engineer, Perchwell

Orlando, FL 05/2022 – Present

- ◆ Developed an event-driven data pipeline on top of a microservice architecture using Kotlin, Postgres, RabbitMQ, Spring Boot, Docker, Kubernetes, and AWS.
- ◆ Built tools in Python to automate MLS data schema analysis and mapping.
- ◆ Built clients to interface with modern and legacy MLS APIs serving large data sets in JSON/XML.
- ◆ Designed the data engineering development environment using Kubernetes/Minikube, Docker, and Helm.

Software Engineer, Homes.com

Orlando, FL 07/2018 – 05/2022

- ◆ Developed and maintained a multi-process data pipeline on top of a microservice architecture using Python, MySQL, MongoDB, RabbitMQ, AWS, and Solr.
- ◆ Developed new features, batch processes, bug fixes, optimizations, unit tests, and internal tools.
- ◆ Updated legacy Perl pipeline segments to Python3.
- ◆ Built APIs and tools to support data analysts.
- ◆ Led project to convert monolith architecture into decoupled and containerized microservices.

IT Integration Analyst II, Tallahassee Memorial Hospital

Tallahassee, FL 08/2017 – 07/2018

- ◆ Developed interfaces for medical systems and EMR systems.
- ◆ Built processes in the Cerner backend using CCL.
- ◆ Developed internal tools using C#/ .NET to analyze data processed by the TMH integration engine.

Graduate Research Assistant, Florida State University

Tallahassee, FL 06/2016 – 07/2017

- ◆ Developed compiler optimizations that increased available instruction-level parallelism in superscalar architectures by identifying collapsible sets of dependent instructions on the critical path.

Graduate Teaching Assistant, Florida State University

Tallahassee, FL 08/2015 – 05/2016

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

EDUCATION

Master of Science Computer Science

Florida State University

2015 – 2017

GPA: 4.0

Bachelor of Arts Asian Studies/Business

Florida State University

SKILLS

Languages:

Python, C/C++, Kotlin, Perl, SQL

Databases:

SQL (Postgres, MySQL)

NoSQL (MongoDB, Solr)

Cloud:

AWS (S3, EC2, RDS, ECR, EKS, boto3)

Other:

Docker, Kubernetes, K9s, Git, Github Actions, RabbitMQ, Pandas, Linux, Restful APIs, Spring Boot, Vim, IntelliJ, Jira, Postman, ETL Pipelines

RESEARCH

Master's Thesis:

Dependency Collapsing in Instruction-Level Parallel Architectures

Adviser:

Dr. David Whalley

Link:

diginole.lib.fsu.edu/islandora/object/fsu:552035