

Victor Brunell

MS in Computer Science

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EDUCATION

Florida State University

MS in Computer Science

2015 – 2017

GPA: 4.0

Thesis: Dependency Collapsing in Instruction-Level Parallel Architectures

Florida State University

BA in Business / Asian Studies

2000 – 2006

SKILLS

C, C++, Java, Python, SQL, MIPS, HTML, CSS, Android Studio, Git, Unix/Linux, *nix Scripting, Vim, LaTeX, VMWare, Google Cloud Platform, Windows Server, Active Directory, Powershell

SELECTED COURSEWORK

Compiler Construction, Advanced Topics in Compilation, Computer Architecture, Artificial Intelligence, Data and Computer Communications, Mobile Programming, Computer and Network Administration, Theory of Formal Languages

EXPERIENCE

Research/Teaching Assistant, Florida State University Tallahassee, FL 2015 – 2017

- Taught C++ programming, computer design, and algorithm analysis to undergraduates.
- Developed compiler optimizations, ALU designs, and CPU simulators in C/C++ and ADL.
- Assisted in computer architecture and optimizing compiler research.
- Collaborated with research teams across three universities.

IT/Business Consultant, Coastal Water Systems Tallahassee, FL 2012 – 2017

- Developed the company website using HTML5, CSS, and Javascript.
- Built and administered the office computer network using Windows Server and Active Directory.
- Modernized business systems via online billing, invoicing, and account management systems.

ALT Coordinator / English Teacher, Tokushima BOE Tokushima, Japan 2006 – 2011

- Acted as coordinator for 75 foreign English teachers (ALTs) working in Tokushima, Japan.
- Taught English to Japanese senior high school students.
- Performed Japanese-English translation and interpretation.

Junior Software Developer, Ben Johnson Associates Tallahassee, FL 2004 – 2005

- Aided in the development of a specialized search engine for financial analysis.
- Developed databases and parsed large volumes of data using SQL, Bash Scripting, and C++.
- Set up and administered the project server using Red Hat Linux.

PROJECTS

- MedCode** An Android app that records and automatically converts medical transcripts into appropriate CPT codes using Google Cloud Platform's Machine Learning API to streamline medical billing.
- Notester** An Android note taking app written in Java using Android Studio and MySQL.
- Cascade** An optimizing compiler written in C that performs dependency collapsing in RISC-based languages to boost performance by improving instruction-level parallelism in superscalar processors.