

# Victor Brunell

MS in Computer Science

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## ABOUT

I recently graduated from Florida State University with an MS in Computer Science. My thesis research involved code optimization using an optimizing compiler to improve instruction-level parallelism in superscalar processors. My research interests include compilers, computer architecture, programming language design, data science, mobile programming, and machine learning.

## EDUCATION

### Florida State University

#### MS in Computer Science

2015 – 2017

GPA: 4.0

*Thesis:* Dependency Collapsing in Instruction-Level Parallel Architectures

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

### Florida State University

#### BA in Asian Studies / Business

2000 – 2006

## SKILLS

<i>Languages:</i>	C, C++, Java, Python, SQL, MIPS, SPARC
<i>Web/Mobile:</i>	HTML, CSS, Android, Android Studio
<i>Networks:</i>	Windows Server, Active Directory
<i>Cloud:</i>	VMWare, vSphere, Google Cloud Platform
<i>Operating Systems:</i>	Unix, Linux, Android, Windows
<i>Graphical:</i>	Adobe Photoshop, Inkscape, Macromedia Suite
<i>Other:</i>	Git, *nix Scripting, Flex/Bison, Bash, Vim, LaTeX
<i>Natural Languages:</i>	Japanese (JLPT 2)

## **EXPERIENCE**

### **Research/Teaching Assistant, Florida State University**

Tallahassee, FL      2015 – Present

- Computer architecture and optimizing compiler research.
- Developing new compiler optimizations, ALU designs, and architecture simulator.
- Collaborating with research teams across three universities.
- Teaching courses in C++, computer architecture and design, and algorithm analysis.
- Working with a team of educators and computer scientists to develop curricula for computer science education in Florida's middle schools as part of the CSIMMS project.

### **IT/Business Consultant, Coastal Water Systems**

Tallahassee, FL      2012 – Present

- IT troubleshooting; Network and website development and administration.
- Modernizing and managing the company's business systems.

### **ALT Coordinator / English Teacher, Tokushima Board of Education**

Tokushima, Japan      2006 – 2011

- Coordinator for 75 foreign English teachers (ALTs).
- Teaching English to Japanese senior high school students.
- Organizing and moderating various workshops and seminars.
- Administering websites serving the English-teaching community.
- Japanese-English translation and interpretation.

### **Network Admin / Junior Software Developer, Ben Johnson Associates**

Tallahassee, FL      2004 – 2005

- Part of a team developing a specialized search engine.
- Database development and data parsing.
- Set up and managed the project server.
- Full stack development.

### **Web Developer, Cennexus**

Tallahassee, FL      2002 – 2003

- Designed and developed websites for local businesses and organizations.
- Provided IT support to local businesses.