

Skills

Ruby ¹⁶ years. Ruby on Rails ¹⁶. Linux ¹⁵. C ³⁴. C++ ²⁹. JavaScript ¹⁶. TypeScript ³. Java ¹⁶. C# ³. HTML ¹⁶. CSS ¹⁶. TDD ¹⁴. Docker ⁵. React ⁴. Heroku ⁶. Nginx ¹¹. VMWare ⁹. MySQL ¹⁵. PostgreSQL ⁶. Windows ⁸.

Experience **Senior Instructor** / Suncoast Developers Guild

August 2018 - Present / Saint Petersburg, Florida

- Taught Ruby, TypeScript, React, HTML, CSS, Algorithmic Thinking, and C# to more than 150 students in an accelerated three-month program.
- Developed curriculum for Ruby, C#, Entity Framework, ASP.NET, HTML, CSS, Responsive Web, JavaScript, TypeScript, React, Deployment, and Algorithmic Thinking. See <https://handbook.suncoast.io>.
- Contributed to internal app generator: app-app. Based on react-scripts, builds student starter projects.
- Built student management system: Nexus + Pylon, a Rails/React/TypeScript system to manage enrollment, homework assignment, grading, and student progress reports.
- Helped place students as junior developers.

Ruby. Ruby On Rails. React. TypeScript. JavaScript. HTML. CSS. Deployment. PostgreSQL. C#.

Senior Developer / STRATACACHE (Real Digital Media)

August 2017 - Present / Saint Petersburg, Florida

- Primary developer on the re-implementation of the NEOCAST digital signage management software. Built as a JSON-API back-end in Ruby on Rails and a front-end in over 30,000 lines of TypeScript and React using Bootstrap.
- Build, deployed, and supported a Ruby on Rails project over 15 years. From Rails version 0.9 through Rails version 6.1
- Built custom Ubuntu based OS to run on ARM-64 based embedded systems.
- Developed and implemented custom kernel patches for ARM-64 systems.
- Built automation software for deploying and scaling AWS resources to host a Docker-based application.
- Implemented consolidated application log collection and analysis.
- NOTE: *Real Digital Media* was purchased by STRATACACHE.

Ruby. Ruby On Rails. TypeScript. JavaScript. React. MySQL. Linux. HTML. CSS.

Instructor / The Iron Yard

July 2015 - July 2017 / Saint Petersburg, Florida

JavaScript.

Ruby. Ruby On
Rails. Heroku.
HTML. CSS.
React.
PostgreSQL.

- Taught Ruby, Ruby on Rails, HTML, CSS, JavaScript, React, Node, Express, Algorithmic Thinking, and Deployment to more than 80 students in an accelerated three-month program.
- Built internal learning management software as part of an internal product development team.

VP Product Development & Engineering / Real Digital Media

January 2005 - July 2015 / Saint Petersburg, Florida

Ruby. Ruby On
Rails. HTML.
CSS.
TypeScript.
JavaScript.
React. MySQL.
Linux.

- Managed a team developing Ruby on Rails applications to provide a remote management web application to operate our customer's digital signage networks.
- Built infrastructure that processes over *five million requests* and *one million background jobs* per day.
- Migrated infrastructure from one server in a closet, through a data center transition, to a scalable Amazon Web Services based architecture
- Built AWS infrastructure and software deployment strategy including multi-zone redundancy.
- Built online report generator producing CSV, XML, JSON, and PDF reports.
- Designed and built interactive editor for designing digital signage presentations containing multi-zone and multi-screen configurations.
- Responsible for database design including query and index optimization.
- Created monitoring dashboards and alerts using Scout.
- Built disaster recovery policies and code including offsite content and database backups.
- Developed Linux and Android software and custom Linux distributions to run on embedded and PC platforms.
- Built software in C, C++, and Java to download, manage, and play customer media on Linux based devices.
- Patched Linux hardware drivers for device incompatibilities and missing features.
- Created our own Ubuntu based operating system designed to boot from a single squashfs root filesystem combined with an overlay filesystem allowing for secure and reliable remote upgrades of thousands of remote devices.
- Oversaw the migration from custom system-on-chip to off-the-shelf hardware including migrations from 32 to 64 bit operating systems and software.

Senior Engineer / Honeywell Space Systems

March 2002 - January 2005 / Clearwater, Florida

- Served as senior software architect on the Ballistic Missile Range Safety Technology program.
- Led team building, testing, and certifying Flight Category 2 (one level below the safety category for human space flight) software in C++ to track launch vehicles, download telemetry, convert real-time telemetry data into actionable information, and plot the Instantaneous Impact Point of launch vehicles.

C. C++.
Windows.

- Created software to provide a 3D view of the projected impact point of a launched rocket allowing a safety office to make a decision to destroy the vehicle if it encroached on populated areas.
- See: <https://en.wikipedia.org/wiki/BMRST>

Senior Software Engineer / Teltronics

Feb 2000 - March 2002 / Sarasota, Florida

C, C++,
Windows.

- Senior software engineer building C++ Windows based software for managing networks of PBX phone systems.
- Contributed to embedded systems software in C, and C++
- Created and executed unit, system, and acceptance tests.

Owner / Epsilon Squared Software

January 1999 - Feb 2000 / St Petersburg, Florida

C, C++,
Windows.

- Built, marketed, and sold products (InstallWatch and InstallRite) for documenting and automating remote deployment of software on Microsoft Windows networks.

Senior Consultant / CFT Consulting

July 1995 - January 1999 / Sarasota, Florida

C, C++,
Windows.

- Designed and built software systems for nationwide system deployments and migrations of retail information systems including POS, inventory management, warehouse management, and accounting for companies such as GAP, Egghead, Totes, and Adidas.
- Managed the RFP process for large POS and Merchandising system selections.

Community **BarCamp Tampa Bay** - 2007 to 2017 - Founding member of BarCamp Tampa Bay

Ignite Tampa Bay - 2011 to 2017 - Founding member of Ignite Tampa Bay

Coder Night - 2017 to 2021 - Organized a meetup designed to help developers of all skill levels, practice and receive feedback in a supportive and collaborative environment.

Tampa Ruby Brigade - 2006 to Present - Organized the Tampa Ruby Brigade meetup.

Education **University of Arizona**

Masters in Management Information Systems

University of Rochester

Bachelor of Arts in Computer Science / Applied Mathematics

Open Source

ruby - Rubygems - added the initial implementation of “did you mean” for misspelled gems during install

rake - Updated output to print the list of tasks in full width if not printing to standard output. Allows for piping to other commands such as grep

rvm - Disabled color output when the terminal is not standard out

jruby - Implemented language features and fixed issues in JDBC drivers

honeybadger - Fixed data context issues

libva - Patched memory leaks

gststreamer - Resolved memory leaks in video and audio codecs