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TIMOTHY P. RYAN
ENGINEER / DEVELOPER

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http://sca2.github.io

RELEVANT SKILLS

Languages	C, Ruby, JavaScript, SQL, Python, Java
Front End Technologies	HTML, HAML, CSS, SASS, jQuery, React, D3, Bootstrap, Foundation
Back End Technologies	Rails, Express, Node, Postgresql, MongoDB, Mongoose
Test Technologies	Minitest, RSpec, Capybara, Cucumber, Mocha, Chai, Jasmine, Jest

PROFESSIONAL EXPERIENCE

Owner / Engineer	*Seventh Circle Audio, Oakland, CA*	*2001- TODAY*

- Develop and maintain Rails-based e-commerce site www.seventhcircleaudio.com
- Design and develop pro audio products including microphone preamplifiers and other signal processors.
- Manage technicians, vendors, and subcontractors to ensure timely delivery and high quality of products.

Software Engineer	*Avid Technology, Inc., Palo Alto, CA*	*2000 - 2001*

- Developed embedded C code for Motorola 683XX-based control product.

Test Engineer	*Finisar Corporation, Sunnyvale, CA*	*1999 - 2000*

- Developed Windows test suite in Visual C++ for fiber channel network analyzer.

Systems Engineer	*Navitel Communications, Menlo Park, CA*	*1998 - 1999*

- Debugged device drivers and supported telephony hardware for Windows CE-based product.

Hardware Engineer	*Compaq Computer Corporation, Houston, TX*	*1997 - 1998*

- Tested and characterized components such as video DACs to support product development.

Project Engineer	*Integrated Industrial Technologies, Cheswick, PA*	*1994 - 1997*

- Developed industrial automation software for large manufacturing clients such as PPG and Kennametal.
- Designed and developed intelligent I/O module for use with AEG/Schneider PLC.
- Designed custom I/O board for VME based automation system.

Engineering Technician	*Carnegie Science Center, Pittsburgh, PA*	*1991 - 1994*

- Designed, fabricated, and programmed microcontroller-based exhibit and theater control electronics.

PROFESSIONAL DEVELOPMENT

Front End Dev Certification	HTML5, CSS3, Bootstrap, JavaScript, and jQuery	Free Code Camp
Data Viz Certification	SASS, React, and D3	Free Code Camp
Back End Dev Certification	Node.js, Git, MongoDB, and Express	Free Code Camp
Production Quality Rails	Git workflow, Agile methods, Circle CI, Redis, Elasticsearch	Launch School
CS169.1x/2x	BDD and TDD in Rails with RSpec, Cucumber, and Capybara	edX
UT6.0.2x	Embedded Systems with ARM Cortex and C	edX
Unit Testing Embedded C	TDD tools and techniques for embedded C	Udemy
Algorithms I and II	Classic algorithms from A* to quicksort, DAGs to strings	Coursera

EDUCATION

Bachelor of Science, Computer Science	University of Pittsburgh
Associate in Specialized Technology, Electronics	Penn Technical Institute
Bachelor of Arts, English Writing	University of Pittsburgh