

SKILLS

Frameworks & Libraries

Node.js • Reactjs • AngularJS
MobX • Redux • Webpack • Babel
LLVM • GCC

Environments

Google Chrome • Electron • Atom
Phaser.io • Unity3D

Tools

Git • npm • PyPi
Compiler Development • Regular
Expressions

Operating Systems

Windows XP, 7, 8.1, 10
Ubuntu • MacOS • Red Hat • CentOS

EDUCATION

MISSISSIPPI STATE UNIVERSITY

B.S. COMPUTER SCIENCE

Dec 2017 | Starkville, MS

College of Engineering

Cum. GPA: 3.89 / 4.0

Major GPA: 4.0 / 4.0

CALHOUN COMMUNITY COLLEGE

CORE COURSEWORK, NO DEGREE

Aug 2011 - May 2014 | Huntsville, AL

Cum. GPA: 4.0 / 4.0

COURSEWORK

Data Communication Networks
Database Management Systems
Computer Architecture
Artificial Intelligence
Theory of Programming Languages
Formal Languages and Automata
Distributed Client-Server Programming
Operating Systems Design
Microprocessors

WRITING

"(Don't Fear) The Regex"

— A Practical Introduction to Regular
Expressions

LANGUAGES

Every day:

C++ • JavaScript

Frequently:

Python • C • CSS

Java • C#

OBJECTIVE

Software engineer passionate about open source software seeking work
experience as a compiler toolchain engineer.

EXPERIENCE

RADIANCE TECHNOLOGIES | WEB DEVELOPMENT ENGINEER

Jan 2018 - Present | Dayton, OH

- Develops, maintains, and tests legacy desktop applications
- Designs protocols and features to bridge capabilities between legacy desktop applications and modern thin-client web applications
- Extends the CPython embedded interpreter to create Python packages implemented in and interoperable with C & C++
- Optimizes image processing algorithms while maintaining compatibility with legacy implementations in different languages and 100% unit and integration test coverage

RADIANCE TECHNOLOGIES | SOFTWARE ENGINEER AIDE

Nov 2015 - Dec 2017 | Huntsville, AL

- Designs, programs, and supports military-use applications such as manned earth reconnaissance training and simulation software using C#/WPF & JavaScript/Electron
- Designs, programs, and supports military training software for pilots and sensor operators using virtual reality with Oculus Rift, Unity, Blender, C# & JavaScript.
- Configures, tests, delivers and installs systems for military training and simulation
- Travels across country to assist system upgrades and new integrations
- Leads design and implementation for next generation Radiance Technologies website utilizing a Server-side Rendered React architecture

TEXTRON SYSTEMS | SOFTWARE ENGINEER INTERN

June 2015 - Aug 2015 | Huntsville, AL

- Designs, programs, and supports military-use applications such as UAV control software using Python & BASH
- Creates workflow-optimizing applications with remote Yum Repository and automatic distribution servers with web interfaces using Python & JS
- Gains exposure to Agile work environment, customer cooperation, and code collaboration

INDEPENDENT DEVELOPMENT

June 2012 - Present

- Programs and maintains several open source libraries and programs
- Programs and distributes multiple Google Chrome Extensions
- Programs and distributes Android smartphone applications on the Google Play marketplace

INSANITY SKATE PARK | SKATE GUARD AND ATTENDANT

May 2014 - Dec 2015 | Madison, AL

- Tests computer networks for security vulnerabilities
- Instructs skateboarding lessons and operates miniature golf and skate surface

VOLUNTEER SERVICE

2015 - 2016	Initium	Volunteer Developer for Popular Browser Game
2014 - 2018	Open Source Code	Contributor to Various Open Source Projects
2010 - 2013	Special Olympics	Escort for Special Olympics athletes
2010 - 2012	AYSO	Center and Sideline Referee