CHRISTOPHER M. HORLICK

Senior Software Developer

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📍 Madison, AL, United States of America

EXPERIENCE

C++ Senior Software Developer

Global Payments, Inc

📅 09/2020 - 09/2024   📍 Remote (Atlanta, GA)

- Implemented ISO8583 Compliance Changes for Visa, Mastercard, Diners, and other banking networks
- Successfully transitioned code base and databases, improving version control efficiency using custom-built binaries (and python modules) decreasing deployment of code updates to only minutes
- Led "tiger team" during SVN to git transition
- Developed REST API for new payment platform
- Contributed to code quality through thorough code reviews
- Developed front-end using TypeScript and JavaScript
- Automated tasks using Python and Bash scripting

C++ Senior Software Developer

Science Applications International Corporation

📅 02/2019 - 09/2020   📍 Huntsville, AL

- Reduced incorrect and inconsistencies in NASA application inventory across federated footprint during AWS and cloud migration
- Led team responsible for custom-built web application of inventory management of NASA federated applications
- Ingestion of large scale datasets from automated scanners and Kubernetes instances
- Pen testing of NASA facilities and applications

Web Application Developer

University of Alabama Huntsville Campus

📅 01/2018 - 01/2019   📍 Huntsville, AL

- Successfully managed data warehousing project for NASA Earth science constellation, improving data availability
- Supported the development and maintenance of web applications using JavaScript and Node.js.Worked on debugging and testing Node.js applications to ensure robust performance
- Built and deployed applications for AWS cloud infrastructure
- Successfully migrated on-prem data warehouse (~PB) into AWS cloud

C++ Senior Software Developer

Science Applications International Corporation

📅 01/2016 - 01/2018   📍 Huntsville, AL

- Expanded initial C++ development responsibilities into a role that also worked with a variety their system-level scripting languages and tools
- Assisted with capturing stakeholder interests and documenting them into design requirements
- Responsible for implementing software solutions that match design requirements, and pass verification and validation criteria
- Update, correct, and maintain software design documents
- Provide input to technical leads regarding estimates of time projections and project requirements

SUMMARY

Senior Software Developer with a comprehensive background in various aspects of software development. Expertise includes:

- Software Development Lifecycle: Proficient in the entire lifecycle of software development, encompassing design, development, architecture specification, requirements analysis, and onsite customer support. Experienced in both application and kernel space development.
- Software Engineering and Architecture: Skilled in software engineering principles, design and architecture development, and detailed documentation of complex systems.
- Testing and Evaluation: Experienced in software maintenance and test support, including Testing & Evaluation (T&E) with hardware in the loop (HITL).
- Tool chain Development: Proficient in simulation and analysis tool chain development across multiple coordinate systems.
- Cross-Platform Development: Adept at designing, developing, and maintaining general applications across various real-time operating systems, including both user interface-based applications and background servers/daemons.
- Developed custom APIs for a variety of industries

EDUCATION

Electrical Engineering

The University of Alabama in Huntsville

📅 01/2005

Master's of Software Engineering

Regis University

📅 01/2017

Bachelor's in Computer Science

Athens State University

📅 01/2014

PhD of Computer Engineering

The University of Alabama in Huntsville

📅 09/2022 - Present

EXPERIENCE

Java and Angular Developer
Geeks And Nerds

📅 01/2014 - 01/2016 📍 Huntsville, AL

- Developed enterprise multi tenant application based on Angular front end and Spring boot backend including RESTful APIs
- Linux based C++ and Qt software development to support the Army RTC in their Testing and Evaluation mission
- Linux/tomcat web based java development using Angular, Spring, Postgres and MySQL
- Worked with customer and other engineering team members to capture requirements and design and develop T&E tools
- Made heavy use of TSPI, TENA, SIMDIS, and MIL-STD-1553 protocols
- Doxygen, markdown, asciidoc and latex documentation engines (Java and C++)
- Git code version system used in house

Software and Design Engineer
Independent Contracting

📅 01/2018 - 01/2012 📍 Various Remote Locations

- Responsible for independent software development, user interface design principles, and requirement engineering in various contexts
- Completed both independent and group projects involving web and C/C++ development both in the application and kernel space
- Used git and SVN code version depending on customer preference
- Used Eclipse IDE for customers
- Used VNC to screen share and work with customers, troubleshoot systems and remotely administer networked machines
- Doxygen, markdown, asciidoc and latex documentation engines for Java and C++
- Created cloud storage based solution for startup utilizing blockchain technology

Software Engineer
Pikewerks

📅 01/2009 - 01/2010 📍 Madison, AL

- Linux kernel software development heavily focused on networking capabilities
- This was research-based development often done in a secure SCIF software lab as part of research for AFRL done on SBIR contract vehicles
- Worked with git and SVN code version systems
- Helped roll out redmine and GitLab tools across enterprise
- Used python and PyQt for rapid development of quick research tools
- Doxygen, markdown, asciidoc and latex documentation engines (Java and C++)

Software Engineer
Fiscal Systems

📅 01/2008 - 01/2009 📍 Madison, AL

- Designed and developed Linux and windows based graphical software applications and Linux based network centric server daemons
- Assisted in debug and troubleshooting customer problems
- Worked directly with debuggers, packet capture tools (tcpdump and Wireshark), and stack analysis software
- Established internal unit testing best practices using CppUnit testing framework
- Implemented doxygen documentation process and procedure
- CVS, SVN and git were all used across the organization in various capacities

KEY ACHIEVEMENTS

◈ **S3I Challenge Coin Recipient**
As recognition for outstanding work my team was presented with challenge coins by US Military.

◈ **SAIC Fellow**
Worked with incoming students to help train and bring skills up to industry standards.

LANGUAGES

c
Native
●●●●●

c++
Native
●●●●●

java
Native
●●●●●

bash
Native
●●●●●

javascript
Native
●●●●●

python
Native
●●●●●

typescript
Proficient
●●●●○

php
Proficient
●●●●○

rust
Intermediate
●●○○○

go
Beginner
●○○○○

PASSIONS

◈ **Software Craftsmanship**

◈ **Artificial Intelligence**

◈ **Generative AI**

◈ **Transaction Simulation**

◈ **Cybersecurity**

◈ **Drone Swarms**

◈ **Mathematics**

◈ **Futurism**

◈ **Philosophy**

EXPERIENCE

IT Support Technician
Digium

📅 01/2006 - 01/2008   📍 Madison, AL

- Tier 2 Tech
- Troubleshooted customer installation and maintenance issues
- Tech support for Linux based enterprise telephony customers
- Assisted with architecture, design, development, and configuration
- Developed the administration of their Linux based telephony servers

SKILLS

Android Development   Angular

angularjs   AWS   AWS Cloud

Bash   Generative Artificial Intelligence

bootstrap   Cloud Infrastructure

Configuration   CSS

Data Warehousing   Debugging

Django   Eclipse   GCC   Git

Gitlab   Gradle   HTML

Interface Design   Javascript   JQuery

Latex   Linux   Prompt Engineering

Markdown   Maven   Visual Code

MySQL   PostgresSQL   PyQt

Redmine   REST   RTC   doxygen

sphinx   embedded development

pytorch   API   Kali