

Timothy R Hanna

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EMPLOYMENT

Assured Information Security (AIS) - Rome, NY, Rochester, NY June 2010 - January 2022

- Software Engineer and Technical Lead for efforts that developed cyber capabilities in support of military operations
- Developed command and control software with APIs and an SDK to integrate cyber capabilities using Python, Redis, MongoDB, and RethinkDB
- Integrated capabilities onto operational cyber infrastructures using Docker, Bash, and Python
- Developed full-stack web user interfaces using React, JavaScript, CSS, GraphQL, and Python
- Developed networking software to perform message creation, routing, and parsing between endpoints using Java, Java NIO, Apache MINA, and Apache ActiveMQ JMS
- Developed and integrated user interfaces using Java Swing, PostgreSQL database, Hibernate ORM library, and the JUNG library
- Designed and performed demonstrations of systems for customers and visitors
- Designed and oversaw test procedures to ensure quality software was delivered to customers
- Founder and Site Lead for the AIS Rochester, NY office
- Member of AIS Technical Council
- Top Secret/SCI Clearance

SKILLS

- Software Development
 - Proficient – Python, Bash, Docker, Redis, RethinkDB, Phabricator, Git
 - Experience – JavaScript, HTML/CSS, React, C, Java, GraphQL, MongoDB, SQL, Gitlab CI, Networking (TCP, UDP, IP, Socket, Wireshark), Cross Domain Solutions, Machine Learning
- Software Engineering Process
 - Created, documented, and trained team on multiple iterations of software development process (based on Agile Scrum) to support rapid team growth
 - Certified ScrumMaster, Scrum Alliance
 - Guided development of improving team's automated testing and continuous integration capabilities (formatters, linters, static analysis, automated releases, virtual environments)
- Engineering Management
 - Promoted staff development through training initiatives, morale events, and performance reviews
- Technical Writing
 - Ability to efficiently produce concise, organized proposals, white papers, reports, and software documentation/guides
 - Worked on custom Pandoc scripts for generating PDF/HTML documentation in Markdown
 - Completed DoD Elevated Level of Assurance (ELA) Level II Training

- Created and presented Technical Writing Lunch and Learn to AIS on Technical Writing
- Public Speaking – Perform critical demonstrations across the country for decision making parties

EDUCATION

Drexel University – M.S. Computer Science December 2013

Clarkson University – B.S. Computer Science, Mathematics; Minor: Business May 2010

OTHER EXPERIENCE

Clarkson Writing Center – Potsdam, NY August 2007 – May 2010

- Tutor that helped students with writing assignments

Eastman Kodak Company – Rochester, NY May 2007 – August 2008

- Software Development and QA Intern on the Kodak Picture Kiosk Team

INTERESTS

Basketball, Volleyball, Golf, Skiing, SCUBA, Gaming, Investing, Cryptocurrencies/Blockchain, Fantasy Sports