

Jerry Wickey

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### Summary:

Senior Software Engineer with extensive experience in IoT, embedded systems, and C++ programming. Proven track record of success in fraud detection, encryption, and project management. Expertise in algorithm development, cybersecurity, and real-time operating systems.

### Professional Experience:

Senior Software Engineer | Allied Payment Network, Inc. | Fort Wayne, IN | August 2022 – August 2023

- Led a team in fraud detection and mitigation efforts, implementing advanced strategies using AWS Fraud Detector.
- Developed cutting-edge fraud prevention techniques resulting in immediate rejection of suspicious transactions.
- Utilized AWS Fraud Detector to promptly decline transactions indicative of fraud, enhancing real-time security.

Principal Software Engineer | Wattre, Inc. | Fort Wayne, IN | 2017 – 2022

- Managed a military encryption project, coordinating cross-functional teams and collaborating with Fortune 500 partners.
- Successfully tested the novel encryption algorithm, PiCypher, on Navy's M80 Stiletto vessel, defeating all 1200 cyberattacks.
- Holds multiple patents pertaining to this achievement.

Full Stack Developer | Echelon Management | Cincinnati, OH | 2013 – 2017

- Demonstrated expertise in full-stack development, contributing to dynamic web application creation and deployment.

Forensic IT Practitioner | Morgan Law Office | Key West, FL | 2004 – 2013

- Practiced forensic IT, generating insightful reports and providing expert testimony in legal proceedings.
- Authored IoT software engineering to combat satellite TV signal piracy, ending IKS signal piracy in December 2009.

#### Skills:

- Algorithm Development
- Cybersecurity Expertise
- Project Management
- IP Network Experience
- Encryption Techniques (RSA, AES, etc.)
- Real-Time Operating Systems (FreeRTOS)
- Bare Metal Development (C++)
- Programming Languages: C, C++, JavaScript, TypeScript, PHP, C#
- AWS Services: S3, Lambda, Fraud Detector, etc.
- Version Control (Git)
- Innovative Problem-Solving
- Effective Communication

#### Education:

- Purdue University Computer Sciences
- Extensive self-directed study in computer sciences, including the design of a Z80-based microcomputer and multitasking operating system development in Z80 assembler language.

#### Relevant Projects:

- Developed an AJAX Function Library available at [jerrywickey.com/files/jerAJAXlibMini.js](http://jerrywickey.com/files/jerAJAXlibMini.js)
- Designed a comprehensive suite of cryptographic tools on GitHub: [github.com/jerrywickey/AJAX-Encryption](https://github.com/jerrywickey/AJAX-Encryption)
- Created an interactive AI demonstration showcasing artificial intelligence capabilities at [jerrywickey.com/think](http://jerrywickey.com/think)
- Designed a project for remote device interconnectivity, promoting data sharing at [jerrywickey.com/synch](http://jerrywickey.com/synch)
- Developed Molecular Evolution Software for simulating molecular evolution leading to speciation, accessible at [jerrywickey.com/evolution/petri](http://jerrywickey.com/evolution/petri)
- Crafted a Bible Concept Search tool for exploring Christian and Jewish Bibles at [bible.jerrywickey.net](http://bible.jerrywickey.net)
- Created software for Arbitrary Precision Arithmetic for handling computations involving large or small numbers with precision.
- Developed TravelzOOm, an interactive travel software for real-time tracking and cab hailing.