

# TY TRACEY | SR. SOFTWARE ENGINEER

Fully Remote, Jacksonville FL | 904-228-6684 | [ty@tytr.dev](mailto:ty@tytr.dev) | [Website](#) | [LinkedIn](#)

## SUMMARY

**Sr. Software Engineer** with over 12 years of experience, specializing in full-stack development, high-performance computing, and cloud-based systems across the tech industry, including 3+ years at **Meta**.

- Proven track record in designing and optimizing scalable software solutions, driving engineering efficiency through CI/CD processes, and delivering AI-powered tools to fuel the next generation of software development.
- Highly skilled in building streaming platforms, distributed systems, and performance-critical applications, with a strong focus on maximizing productivity and optimizing the developer experience.
- Passionate about leveraging cutting-edge technologies, such as GPU computing and machine learning, to solve complex technical challenges in high-demand, results-driven, and deadline-driven environments.

## EXPERIENCE

### Cisco, Duo Technologies

*Sr. Software Engineer*

**Fully Remote**

2025 – 2025

- Led the integration of Cisco Identity Intelligence (CII) with Duo's AI Assistant for Duo users. This included the direct integration of CII tooling with the AI Assistant, as well as prompt engineering and intensive testing of the impacts on the AI Agents. This also included cost estimation of LLM usage rates, logging and metrics (including Kibana dashboards and alerts), and ongoing monitoring of security within the project.
- Contributed to the integration of CII with Duo as a whole, helping to close the gaps with use provisioning and rearchitect things to avoid bugs.
- Led and architected a custom VS Code extension to improve developer experience within the Duo Org. This included the creation of a custom LSP server to wrap our custom tooling and decrease developer friction during everyday task. I extended this to include direct testing integration with VS Code, tools around log mounting and docker integration, and custom AI/LLM workflows to assist Duo Engineers and make them more productive.

### Meta

*Sr. Software Engineer*

**Fully Remote**

2021 – 2024

- Led an effort to optimize the CI pipeline for engineers in the cross-platform ecosystem, reducing test/build times and enhancing developer efficiency by improving a previously cumbersome experience across the lowest level of the stack.
- Managed and maintained Meta's internal VS Code IDE by utilizing TypeScript, Electron, and GPU acceleration, optimizing performance-critical workflows that improved load times and user productivity in resource-heavy environments.
- Owned the connectivity stack for the entire VS Code remote development ecosystem, optimizing connection times by over 60%, significantly improving efficiency and user experience for engineers.
- Enhanced the internal VS Code ecosystem by fostering cross-functional team collaboration, accelerating the delivery of updates while maintaining stability and minimizing disruptions for internal engineers.
- Led a cross-functional initiative to integrate AI tools into the development cycle, especially within VS Code, empowering engineers with advanced automation and improving productivity across the engineering teams.
- Collaborated with engineers beyond the VS Code ecosystem to support and empower users of alternative IDEs, ensuring flexibility and improving developer experience despite Meta's primary reliance on VS Code.

### VERB Technology Company, Inc.

*Sr. Software Engineer*

**Fully Remote**

2020 – 2021

- Led the development of a streaming platform using Node.js, Angular, and AWS, enabling small businesses to sell products/services online, which resulted in a scalable solution that supported thousands of concurrent users.
- Designed and implemented a microservices architecture using Docker, improving system reliability and allowing for more efficient handling of heavy traffic during peak usage periods.
- Developed RESTful APIs and integrated third-party services to synchronize platform capabilities, enabling seamless integration with external tools and improving user functionality.
- Applied performance optimization techniques across backend services using Redis and PostgreSQL, reducing latency and ensuring real-time interactions for users during live streaming events.
- Collaborated with cross-functional teams, including product and marketing, to translate business needs into technical solutions, delivering features that aligned with company growth objectives and user engagement metrics.
- Ensured code quality and scalability through testing using Jest and Cypress, automating test coverage and reducing the time required for manual testing during release cycles.

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**SemanticBits, LLC**  
Software Engineer

**Fully Remote**  
2016 – 2020

- Developed and optimized a secure communication platform using Node.js, Angular, and PostgreSQL, enabling state and federal government agencies to exchange sensitive healthcare data and improving the detection and reporting of fraudulent activities.
- Developed RESTful APIs to integrate third-party services, enhancing interoperability between disparate healthcare systems and enabling real-time, reliable data processing across federal and state agencies.
- Applied advanced security measures, including OAuth 2.0, to ensure compliance with HIPAA regulations, safeguarding sensitive information across multiple environments and enhancing data security.
- Worked across engineering teams to establish best practices and internal static analysis tools that allowed teams to move faster while maintaining the strict compliance standards of the U.S. Federal Government.

**Ascentis Corporation**  
Software Engineer

**Jacksonville, FL**  
2015 – 2016

- Developed and maintained enterprise HR software using Java, C# and .NET, improving the platform’s performance and scalability to accommodate thousands of users across multiple clients.
- Maintained and developed an internal frontend framework written in Dart, which was leveraged to build the UI for the company’s core products.
- Built and optimized custom modules for payroll processing and employee benefits management, using SQL Server and LINQ to improve data handling efficiency and reduce processing times for large-scale transactions.
- Collaborated with cross-functional teams to integrate third-party services via RESTful APIs, enhancing product functionality and delivering seamless experiences for HR administrators and end users.

**Transcor, Inc.**  
Software Developer

**Jacksonville, FL**  
2014 – 2015

- Developed and expanded REST APIs using Java EE, Spring, and EJB, enabling seamless integration between Greyhound’s mainframe systems and modern web services which enhanced system interoperability.
- Led the design and implementation of an in-house routing engine utilizing graph algorithms and NoSQL databases, improving route optimization and data storage efficiency.
- Integrated external payment APIs using SOAP, enabling secure and efficient transaction processing, and reducing payment latency for Greyhound’s services.
- Managed dependency injection and entity management with Spring, while utilizing Maven for dependency management and JPA for relational data handling in PostgreSQL and CouchDB environments.

## CORE COMPETENCIES

- |                                |                                       |                                    |
|--------------------------------|---------------------------------------|------------------------------------|
| – Full-Stack Development       | – GPU Computing                       | – Testing and Automation           |
| – CI/CD Pipelines              | – Scalable Architecture               | – Code Quality and Maintainability |
| – AI-Powered Development Tools | – Distributed Systems                 | – Cross-Functional Collaboration   |
| – Cloud Technologies           | – Software Engineering Best Practices | – Productivity Tools               |
| – Performance Optimization     | – API Development                     | – Unix/Linux Shell Scripting       |

## TECHNICAL SKILLS

- |                                  |  |
|----------------------------------|--|
| <b>Software Engineering:</b>     | CI/CD, Git, Testing, API Development, Cloud (AWS, Azure, GCP), Performance Optimization, Scalability |
| <b>Web Development:</b>          | Full-Stack, React, Svelte, Node.js, HTML, CSS, Responsive Design                                     |
| <b>Programming Languages:</b>    | JavaScript, TypeScript, Python, Rust, Java, C/C++, Kotlin, PHP/Hack, Go, APL/BQN, Clojure, etc.      |
| <b>Graphics &amp; Rendering:</b> | OpenGL, Shader Programming (GLSL), 3D Rendering, 3D Modeling, Ray Tracing, GPU Computing             |

## EDUCATION

Bachelor of Science (BS), Computer and Information Systems | University of North Florida

## ADDITIONAL INFORMATION

**Personal Projects:** Launched a widely followed software engineering podcast; Designed a custom 3D guitar configurator for Tosin Abasi, from Animals as Leaders