TOM CLANCY

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Seasoned technology consultant with over two decades of experience spanning the application development lifecycle. I transform concepts from initial sketches to deployed solutions, specializing in performance optimization, system architecture, and team leadership. What continues to drive me is collaborating with people to build solutions that make meaningful change.

CORE COMPETENCIES

TECHNICAL LEADERSHIP & PERFORMANCE OPTIMIZATION

- Optimized application performance by closing N+1 queries, refining database operations, and cleaning up inefficient functions at Cofactr, Rhumbix, et al
- Led performance improvement initiatives by identifying bottlenecks through heatmaps and source graphs at Harvard Business School Online (HBX), Ground Energy
- Enhanced instrumentation in monitoring tools like New Relic, DataDog and Sentry to identify performance issues and low-level problems at Cofactr, Rhumbix, HBX, Ground Energy
- Replaced rough prototype code with Pandas-based production-ready solution, improving deployment safety and performance by an order of magnitude solutions backed by comprehensive unit tests at URS (2013-2014)

SYSTEM ARCHITECTURE & DEVELOPMENT

- Designed real-time data processing systems handling minute-by-minute updates and gigabytes of data for Ground Energy's geothermal installations (2012-2022)
- Built notification systems that integrate database models with external APIs at Cofactr (2024)
- Created IoT monitoring solutions using Particle.io, web sockets and Django for home heating oil level tracking at Tankclarity (2016-2020)
- Aggregated Postgres data into Redis to enable real-time performance for data-intensive applications at Rhumbix (2016-2020)
- Developed payment processing flows for enterprise platforms at Box.com (2022-2024)

QUALITY ASSURANCE & BEST PRACTICES

- Advocated for testing at all levels of the Test Pyramid, code linting and CI/CD quality gates at every stop in my career
- Nicknamed "The Human Linter" by a group of off-shore developers for pull request reviews at HBX
- Helped spearhead transition to Behavior Driven Development methodologies at Box (2022-2024) and Rhumbix
- Created reliable deployment processes in collaboration with DevOps teams for multiple environments at Harvard Business School Online (2013-2016)
- Designed test cases for CSS standards that did not exist in browsers yet at using PrinceXML for W3C (2007-2009)

INTEGRATIONS & APIS

- Connected systems with IoT devices including geothermal reporting systems, Ecobee thermostats, and automotive sensors (2012-2022)
- Integrated payment processing through platforms like Stripe and Authorize.net across multiple client projects (2012-2020)
- Implemented communication APIs such as Twilio for SMS alerts and notifications at Rhumbix and others
- Built authentication systems working with OAuth and other identity management solutions for PBS' *Frontline* (2010-2011)
- Parsed and processed large financial datasets for Fidelity (2009-2010)
- Worked directly with overseas teams at Autodesk to integrate document storage and versioning into Rhumbix

TEAM LEADERSHIP & MENTORING

- Mentored developers of various experience levels across multiple organizations throughout my career, including managing a team of eight at Rhumbix (2017-2020)
- Serve as technical lead for distributed development teams, providing final quality reviews for pull requests at HBX (2013-2016)
- Lead teams and mentored junior employees throughout career (2000-present)
- Did interviewing at various steps and was involved in improving and making interviews fairer at Rhumbix and Box.com

SKILLS

Python	Django	PHP	C#	Typescript	JavaScript	Postgres	MySQL	Redis
MongoDB	Snowflake	BigQuery	TDD	BDD	APIs	Data Processing	NLP	AWS
Azure	Elasticsearch	Solr	Selenium	Webdriver.io	CI/CD	Terraform	Cloud services

EMPLOYMENT HIGHLIGHTS

- Box.com | Senior Software Engineer
- Rhumbix | Staff Engineer/Engineering Manager
- HBX (Harvard Business School Online) | Development Lead
- Ground Energy | Geothermal IoT Project
- PixelMEDIA (now RafterOne) | Full-Stack Developer and Team Lead
- *Full list available upon request*

EDUCATION

UNIVERSITY OF ROCHESTER

BA Economics | Sep 1993 - May 1997