

Ian Gibson

SOFTWARE ENGINEER · AI & CLOUD INFRASTRUCTURE
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PROJECTS

TradeWithArty.com — Full-stack AI trading platform · Next.js, Claude API, OpenAI · Docker · Live with active users.

ForexBot — Autonomous trading agent · Python, OANDA API, OpenAI · Containerized agentic pipeline for automated inference and execution.

EXPERIENCE

Software Engineer & Application Manager · [City of San Antonio](#) *Mar 2023 – Present*

Sole engineer managing 3 enterprise platforms serving thousands of city residents daily.

- Maintained enterprise software across the full SDLC — JavaScript, SQL, Azure — collaborating with IT and business stakeholders in a regulated government environment.
- Resolved complex production incidents on city-scale distributed systems; performed root cause analysis and implemented permanent fixes to prevent recurrence.
- Applied Agile/SAFe methodologies with Git-based CI/CD workflows; authored technical specs and platform documentation that reduced onboarding time significantly.

Fullstack AI Engineer · [Ankobia Group](#) *Jun 2023 – Jan 2024*

Delivered 2 production AI platforms end-to-end as the sole engineer in under 8 months.

- Built and deployed Business Process Toolkit and Ethical Disclosure platform using React, Express, Node.js, and MongoDB — owning full lifecycle from requirements to production.
- Designed and integrated AI automation pipelines reducing manual review overhead by 60%+; built and consumed RESTful APIs with Express and Mongoose.
- Conducted gap analyses on platform performance and AI model behavior — recommending and implementing solutions that improved stability and output reliability.
- Enforced data integrity across MongoDB collections via Mongoose schemas and performed iterative QA across test and staging environments.

Enterprise Application Engineer · [Bexar County](#) · [Tyler Technologies](#) *Jan 2019 – Mar 2023*

Key contributor to county-wide Go-Live rollout impacting 1,000+ justice and clerk staff.

- Supported Tyler Technologies Odyssey Navigator & Clerk Edition implementation across Bexar County justice and clerk operations — contributing through full Go-Live.
- Developed and maintained SQL queries, data extracts, and ETL pipelines supporting reporting, auditing, and compliance requirements.
- Tested and validated application upgrades, patches, and configurations across test and production environments; documented workflows reducing support friction.
- Provisioned and managed enterprise user accounts, workstations, and VDIs via Active Directory and Azure — gaining hands-on identity management experience.

Software Engineer · [Abantu LLC](#) *Jan 2018 – Oct 2019*

Contributed to successful production launch of Abantu's full-stack MERN platform.

- Built React/Node.js architecture, RESTful APIs with Express and Mongoose, and contributed to feature development and performance optimization across the MERN stack.
- Conducted code reviews and enforced coding standards — improving maintainability and reducing technical debt across the codebase.
- Applied TDD practices and Git-based workflows including branching, merging, and PR reviews in a collaborative engineering environment.

IT Administrator · [Clear Channel Outdoor](#) *Jan 2018 – Feb 2019*

Led global device migration for 3,000+ employees during COVID with zero data loss.

- Migrated cloud-based asset monitoring infrastructure to Azure and AWS — improving uptime visibility and reliability across a nationally distributed network.
- Administered Active Directory, Exchange, and network accounts; provisioned workstations, laptops, and servers across the organization.
- Performed QA code review on SQL written by remote developers — catching syntax errors and data integrity issues before reaching production.

Computer Engineer / A/V Systems Architect · [Las Cruces Public Schools](#) *Jan 2017 – Oct 2018*

Served as a technical bridge between district leadership and engineering teams across multiple school sites.

- Administered Active Directory and network accounts for district-wide personnel; installed and configured Cisco Codec A/V infrastructure across classrooms and conference facilities.
- Translated district leadership requirements into actionable technical specs — coordinating between non-technical stakeholders and engineering teams.
- Trained instructors and staff on classroom technology, reducing recurring A/V support requests through proactive education.

SKILLS · EDUCATION · CERTIFICATIONS

AI/ML: Claude API, OpenAI, Agentic AI, Prompt Engineering, Model Lifecycle **Languages:** Python, JavaScript, TypeScript, SQL, C#, Java

Infra: Docker, CI/CD, Git, Azure, AWS, Linux, RESTful APIs **Data:** PostgreSQL, MongoDB, MySQL, ETL Pipelines, PowerBI

BS Software Development · WGU 2023 **SAFe 6 Scrum Master** · ID: 69443416-4228 **SE & Data Analytics** · General Assembly 2018