

Aric Crosson Bouwers - Full Stack Developer

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Summary

Full-stack AI Engineer with 6+ years in software development, following a 7-year career as a BIM Technologist, known for shipping production-grade web apps (React) and internal iOS apps, with deep focus on AI workflow automation.

AI expertise: Architected a customized "AI software factory" spanning 9 teams – agentic dedupe, enriching, planning, design, coding and review loops, prompt/rules frameworks, and human-in-the-loop quality gates that strengthen planning, delivery, QA, documentation, and alignment to requirements. Built and operated 24/7 team-wide agents on isolated VPS infrastructure, standardizing tool access and OAuth across the org, enabling team knowledge accessibility.

Skills and Technologies

- Full-stack Development - TypeScript + JavaScript | Next.js/React | TanStack Query | Zustand | SSR + State Management | Shadcn/ui | TailwindCSS | Node.js | Express | Nest.js | Firebase | Supabase | PostgreSQL | MongoDB | REST APIs | Autodesk APS API | Jest | Playwright | Git | Github Actions / Admin | C# | .NET | Python | Vue | Google Workspace / Cloud Console Admin | AWS | Swift | iOS / MacOs
- AI Engineering | Software Factory Development | Hermes Agent | Claude Code | Codex | Skills | Plugins | Hooks | Cursor | Augment Code | ChatGPT | OpenAI API | Agentic Workflows | Retrieval + Memory Systems | AI Code Review
- Tools and Skills - Front-end | Back-end | Code Architecture | Prompt/Context Engineering | Figma | Linear | Postman | Terminal | GitHub | CI/CD | Doppler | Product Management | Project Management | Agile | Layout and Design | UI/UX | Framer Motion | Revit

Experience

Full Stack AI Engineer and Workflow Architect, Full Time

Max Technologies / Webvar

Dec 2025 - Present

- Architected and shipped AI-powered engineering and planning workflows that pulled business requests and feature requests from Slack and meeting notes into scoped implementation plans, designs, code changes, pull requests, QA passes, and team-visible status updates with human review built into the loop, enabling our team to spin up 8 different SaaS Products simultaneously.
- Built a full-stack marketplace application connecting AWS Marketplace APIs with internal data models, vendor/buyer/reseller relationships, organization and user accounts, and CRM processes to support complex B2B sales journeys from discovery through to deal execution.
- Built automation that connected CRM activity, internal tools, GitHub, Slack, and operational systems so sales and engineering work could be tracked, acted on, and reviewed in one workflow instead of across disconnected handoffs.
- Implemented CRM and cold-outreach workflows that gave sales teams cleaner lead handling, faster follow-up, better account context, and more repeatable outbound processes, increasing the team's capacity to run and manage outreach without adding manual coordination overhead.
- Evaluated and implemented long-term memory, retrieval, and knowledge-management approaches for company-wide agent use, balancing reliability, security, maintainability, and real team adoption.

Full Stack Developer, 3-Month Contract

Village Wellth

Aug 2025 - Nov 2025

- Architected a polymorphic notes data model in Prisma/PostgreSQL to replace a legacy design, allowing notes to dynamically collect context to any application entity (pages, profiles, documents, conversations).
- Set up AI-assisted code generation inter-agent pair programming workflows with RepoPrompt, Augment Code, Claude Code, and Codex to rapidly scaffold complex features from high-level specs.
- Applied advanced prompt engineering and rigorous review to align AI-generated code with existing architecture, patterns, and test coverage.
- Implemented a secure full-text search and query layer for notes using generated index columns and parameterized queries, replacing unsafe raw SQL while supporting fast multi-word prefix search and rich filtering.
- Delivered advanced filtering for notes (type, author, relationship, tags, pinned state, date range, context, etc.) with segmented filter controls and an "All filters" modal so power users can quickly slice activity instead of scrolling long timelines.
- Hardened access control for notes across multiple roles and team structures by refactoring permission helpers and adding focused Jest test suites, closing gaps where users could see or mention unauthorized parties.

Full Stack Developer, Full Time

Collegium

Oct 2023 - Jul 2025

- Shipped a **fully functional MVP in 4 months** for a 3-sided real-estate development management and vendor procurement platform connecting developers, owners, consultants, contractors, and vendors across pre-construction and procurement workflows.
- Led original product concepts and prototypes, mapped business workflows with founders, refined UX patterns, and architected the end-to-end full-stack application from data model to interface.

- Drove **product discovery on critical workflows** and secured founder buy-in; built a roadmap of 250+ tickets across 27 projects and prioritized the highest-value features for post-MVP adoption.
- Built complex construction project management features including BIM model element aggregation, quantity workflows, work-package distribution and procurement, bid creation and balancing, and **AI invoice processing**.
- Architected comprehensive Firestore data models with real-time listeners and introduced TanStack/React Query caching plus optimistic updates, slashing redundant network calls and improving perceived load times to sub-second.
- Created advanced reusable and atomized UI components including data tables with sorting/filtering and conditional dynamic columns.
- Integrated Autodesk Platform Services (APS) API to import BIM data (50k+ model elements) to auto-populate work-package scopes—eliminating manual take-offs and enabling an interactive 3D construction model viewer.

**Backend Software Developer /
3D BIM Modeler and Drafter - Full Time**

RJC Engineers

**Oct 2020 - Apr 2022 /
Nov 2016 - April 2022**

Notable Projects - [General Notes Import and Layout Tool](#) (backend, native add-in frontend) + [General Notes Import](#)

- Quickly learned C#, Python, and .NET framework alongside full-time workload, to build native add-ins and applications to automate BIM modelling workflows, making a critical project task **1400% more efficient** (manual process of 4hrs down to 10s-15s script).
- Deployed and assisted installation and onboarding for new add-ins built, greatly increasing company-wide adoption and use.
- Collected user feedback and feature requests, identified the problem, generated ideas, then iterated on solutions to develop applications to address the need, resulting in fully developed applications **resolving the businesses bottlenecks for project delivery**.
- Integrated new solution with trusted workflows, automating the import and export of data to and from spreadsheets, resulting in an easily adoptable application with less friction for the end-users.

**Customer Development Manager
- Part Time • Contract**

Max Technologies

Jun 2022 - Sept/2022

- Designed and implemented the first version of a buyer, vendor, and sales agent facing website, allowing clients to track their contracts.
- Guided the product and business development for this **start-up in the B2B software market**.
- Developed collateral including a website, emails and HTML signatures, sales data sheets, pitch decks, and presentations. Researched our target market and put together honest and fair business strategies using customer insights.
- Built company workflows including automation for Asana, Slack, Apollo.io, and HubSpot.

**Digital Communications Manager
- Part Time**

Rights and Freedoms Advocate

Jun 2022 - Feb 2023

Skills - Google Tag Manager | Google Analytics | Google Ad Manager | Meta Ads Manager | Kindful | CRM Software Integration

- Configured complex digital marketing and CRM applications, solved technology issues quickly, and drove adoption of new tools into the business model.
- Set up **Google Analytics, Google Tag Manager** enabling the charity to track audience interactions with the site and social media platforms resulting in more focused and successful campaigns, **growing audience by 250%**.
- Designed and developed the website with dynamic pages which were generated from a database, **cutting content generation time in half**, while keeping the design consistent between each post.

Education

**Full-Stack Developer Program -
Full Time**

InceptionU

Feb 2023 - Jul 2023

JavaScript Algorithms and Data

FreeCodeCamp

Dec 2021 - Jan 2023

**Pair Programming | Tutoring |
Guided Projects**

Chthonic Software

Sep 2021 - Nov 2022

Digital Engineering 233 - C++

University of Calgary

Sep 2014 - Jan 2015

**Architectural Technologies
Diploma - 4.0/4.0 GPA w/ honours**

SAIT Polytechnic

Sept 2011 - Apr 2013

Volunteering

Breakfast duty twice per month

Calgary Drop-In Centre

**May 2023 - May
2024**

Tutored fellow students

InceptionU

May - July 2023

Discover Tech YYC 2023

Platform Calgary

May 2023

References

- **Character Reference:**

Margo Purcell - CEO | InceptionU | (403) 399-7369 | margo@inceptionu.com

- **Professional References:**

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