

Communications

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Abilities

Model Context Protocol (MCP)
Platform Engineering
GraphQL Federation
Event-Driven Architecture
Serverless Computing
Cloudflare Workers
Full Stack Development
TypeScript
React
Node.js
API Design & Integration
B2B Platform Development
AWS Lambda
Cloud Infrastructure
AWS (DynamoDB/CloudFormation)
Infrastructure as Code (SST)
Vector Stores & AI Integration
Go
C++
HTML
Javascript
E-commerce Platform Development
Multi-tenant Architecture
Microcontrollers/Embedded
Microservices
Cloud Platform Infrastructure
Linux
Docker
Augmented Reality (AR)
Internet of Things
Technical Leadership
Software Design
and others...

Education

University of Hawaii Manoa

Computer Science
Master of Science
2008-08 to 2010-05

University of Puget Sound

Computer Science
Bachelor of Science

Identity

Aaron Herres.

Platform Systems Engineer specializing in AI infrastructure, distributed systems, and developer tooling platforms

Interested in the code that makes this resume? Check out the repo on [GitHub](#)

Experience

Sibi

2023-01 to present

Staff Software Developer

Staff engineer on platform team for property management platform serving 500K+ orders. Technical evangelist for emerging technologies including MCP and vector stores through internal workshops and knowledge sharing. **External API & B2B Platform Development:** • Designed and built first external integration points for greenfield platform, creating REST and GraphQL APIs for partner companies • Led direct customer discovery with external companies to identify critical integration requirements and API design priorities • Successfully onboarded first B2B customers to platform through custom integration solutions, establishing new revenue streams **Platform Engineering & Systems:** • Built production systems within GraphQL federation architecture spanning 45+ microservices • Designed event-driven streaming platform (Firehose) handling webhook delivery and cross-system synchronization • Deployed multiple production services on Cloudflare Workers infrastructure with D1, KV, and vector store integrations **Model Context Protocol (MCP) Development:** • Built multiple production MCP servers: Henschman (Slack integration), Bot-brain (vector stores), Missing-cent (invoice discrepancy detection) • Created MCP agents for GraphQL federation access, asset management, and AI-powered developer tooling • Maintained internal knowledge sharing channels with MCP implementation patterns and best practices

TypeScript/React ■ GraphQL Federation ■ Cloudflare Workers
■ AWS Lambda & DynamoDB ■ Model Context Protocol (MCP)
■ Event-Driven Architecture ■ Serverless Computing ■ SST (Serverless Stack)
■ Webhook Architecture ■ Distributed Systems ■ API Design & Integration
■ B2B Platform Development

Loqwai

2021-08 to 2023-01

Software Consultant

Self-employed software consultant working on diverse projects for clients, including product design consulting for startups, microcontroller development and architecture for an open-source IoT farming project, and software development and docker infrastructure for a decentralized storage project.

Typescript ■ Microcontrollers ■ C++ ■ IPFS

Magic Leap

2019-03 to 2021-04

Team Lead

Acted as a lead developer for the backend of a collaborative augmented reality cloud platform. Helped form the culture of the team, as well as develop and design the product. Instilled an effective, collaborative team culture featuring test-driven Unix philosophy with an agile development cycle. Stitched together the real and virtual worlds via the magic of augmented reality goggles. Focused on making augmented reality less lonely by enabling shared experiences - persistent augmented reality worlds multiple users could see and interact with.

Node ■ Golang ■ C++ ■ Javascript ■ Typescript

Citrix

2014-12 to 2017-11

Staff Software Engineer

Full stack design and development of the Octoblu Designer, a flow-based visual editor that connects of hundreds of different devices and services to each other without code. Flows run in the cloud, allowing execution of arbitrary flows created by users securely and efficiently due to our massively parallelizable

2003-08 to 2007-05

architecture. Design of the domain-specific language used by the Octoblu Designer. The designer ran on top of Meshblu, the open source IoT platform described below.

Admirers

Roy van de Water
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C++ ■ Javascript ■ Coffeescript

Octoblu

2014-03 to 2014-12

Software Consultant

Full stack development of Meshblu, an internet of things platform, and development work on practical solutions based on that platform. Meshblu can connect hundreds different of services, internet of things devices, and hobby projects to each by translating them to a common messaging system. This system was acquired by Citrix, who then developed the commercial frontend "Octoblu" mentioned in the Citrix section. The public instance of the Meshblu platform processed over 4 million messages per day.

Node ■ C++ ■ Javascript ■ Coffeescript

Unicon, Inc.

2013-08 to 2014-05

Software Developer

Developed and consulted for an open source education portal. Worked on the security on the platform, as well as front and backend work with Java/Spring.

Java ■ Javascript ■ HTML

Omedix

2010-09 to 2013-04

Software Architect

Helped design the Omedix Engage platform, which managed patient and practice portals for the healthcare industry. Wrote systems that handled sensitive healthcare data securely. Designed the "Black Box", a physical network appliance installed in the datacenter of a medical practice that securely connected their electronic medical system to the Omedix Engage platform. Designed 2 domain-specific languages to build custom patient forms for medical practices. Acted as a liaison for Omedix Team India, offering tutorials and designs to teams on the other side of the world.

Java ■ Javascript

Avanade

2007-08 to 2008-08

Solution Developer

Contract developer for Microsoft, working on disaster recovery and EULA-generation projects in C# and ASP.NET

C# ■ .NET ■ SQL

Software Development Alternatives

2001-12 to 2003-01

Software Developer

Tested and fixed bugs for the Flight Management System of Airbus A320 aircraft, including some feature development. Subcontracted from Honeywell.

C++ ■ Ada