CHRISTOPHER KUECH

chris@kuech.dev | chriskuech.com | GitHub: chriskuech | Seattle, WA

# CORE COMPETENCIES

* **CLOUD**  
  DevOps/DevSecOps, CMMC/ITAR Compliance, AWS/Azure, High-Availability, Cloud-Native Solutions, Software Architecture, Microservices, Kubernetes/Docker, Developer Experience.
* **RAPID APP DEV**  
  Full-Stack Generalist, TypeScript, React/NextJS, Data Modeling, AI Integration, SaaS, Accelerated Go-to-Market Timelines, Scalable Prototypes, Prototyping Frameworks.
* **LEADERSHIP**  
  Team Management, Cross-Functional Leadership, Project Management, Agile, Software Development Lifecycle, Requirement Analysis, Client Collaboration, Scoping & Delivery.
* **BUSINESS AUTOMATION**  
  Manufacturing, Supply Chain, Procurement, ERP, Technology-Driven Services, Workflow Optimization, Generative AI/RAG, Human-in-the-Loop Safeguards, Operational Efficiency.

# PROFESSIONAL EXPERIENCE

## SupplySide, Co-founder / CTO – June 2024 *-* Dec 2024

* Worked with 2 developers to build an MVP for an ERP system for small advance manufacturers.
* Combined Generative AI/RAG, email/document processing, project management features, and service integrations to automate away the purchasing/accounting role and other back-office tasks in small manufacturing companies, offering ~10x time-savings per administrative task.
* Ran an initial pilot of the application within 2 months from launch and evolved the thesis in reaction to the market, expanding into factory floor functionality.
* Failed-fast and fulfilled our fiduciary obligation to return investment early, forecasting diminishing returns from moving down market against the cost of addressing support/onboarding/sales.
* Currently in talks to sell the prototype.

## Datum Source, Founding Engineer – Oct 2021 - June 2024

* Led the engineering team and technical strategy at Datum Source, from bootstrap to successful acquisition by Hadrian.
* Applied agile concepts to build a full-stack TypeScript React architecture and dev experience, earning us a reputation for rapid development compared to peer companies with 10x the dev count.
* Collaborated with PM and internal customers to migrate a custom AirTable solution into a Tech-Enabled Services web app, streamlining the service team workflow enough to cut half their team while steadily driving GMV.
* Productized the Tech-Enabled Services solution into a new SaaS revenue stream, driving more GMV into our system. Supported $100M+ GMV on the platform.
* Aggressively drove results, with daily pair programming sessions and directly writing 60% of code (by line count), including advanced features like real-time chat, data platform, Computational Geometry/AI integrations, DevOps, etc.
* Maintained ITAR, ISO 800-171, CMMC L1 compliance, handling Controlled Unclassified Information (CUI).
* Led an engineering team of 3 FTE Software Engineers, 5 nearshore Software Engineers, 1 Computational Geometrist, and 1 - 5 outsourced resources. Met daily with our Head of Product to channel product problems into actionable engineering solutions.
* Partnered with Computational Geometry Engineers to implement geometry-based supplier matching to pick 4 optimal suppliers out of >10k, enabling our services team to diversify their active supplier pool by >10x.
* Evangelized Agile concepts to C-suite, shifting our culture from over-designed quarterly releases to often daily releases, enabling us to pivot quickly and successfully achieve Product-Market Fit.

## Microsoft, Senior Software Engineer – Aug 2015 - Oct 2021

* Kickstarted a web service for configuration management of enterprise apps in Edge Browser, enabling Microsoft to continue supporting end-of-life applications while eliminating a whole class of security vulnerabilities. Applied my expertise in configuration management and compliance to architect a solution cutting through red tape. Onboarded and team of new hires to transition ownership of the service.
* Deployed an experiment to every Edge Browser enabling CPU-level security features to block a class of C++ vulnerabilities.
* Contributed to the development and launch of a Kubernetes microservices platform deployed across multiple compliance domains, hosting components of Dynamics for Finance & Operations (Microsoft’s ERP). Managed the Identity and Access Management service, enabling secure access within the platform and delegating secure access to Fortune 500 company customers.
* Migrated a portfolio of high-availability services to cloud native and custom IaaS solutions, including www.microsoft.com (25th highest traffic website in the world), time.windows.com, and the Microsoft Store, enabling the offloading of a ~10 person contractor team and ~7 person ops team. Reduced DevOps code volume by 95% while enabling high-availability features like automatic rollback, immutable deployments, etc.
* Managed a collection of end-of-life Business Intelligence data pipelines for microsoft.com aggregating millions of events per day, including budgeting, compliance, and support. Audited the system, worked with stakeholders to define a roadmap and architect a cloud native solution, then led a 7 person contractor team to implement the plan, resulting in >$1.2 million in annual cost reduction.

# THOUGHT LEADERSHIP

* **StackOverflow Moderator** – 2024 - *Present* – https://stackoverflow.com/users/1470887/twinlakesModerator of the de facto developer forum, awarded in recognition of a high contribution rate.
* **GitHub contributions** – https://github.com/chriskuech

200+ stars on authored repositories, especially microsoft/requirements and chriskuech/functional supporting DevOps in PowerShell.

* **medium.com** – 2019 - *Present* – https://medium.com/@cjkuech

Articles about applying Computer Science and Software Engineering principles to PowerShell and DevOps.

* **Microsoft internal conferences** – 2017 - 2019

Shared the PowerShell/Azure automations that migrated the microsoft.com service portfolio to Azure.

Presented “Delete Your Codebase” about my success building DevOps automation for microsoft.com.

# TECHNICAL SKILLS & TOOLS

**Languages:** TypeScript, React, C#, PowerShell, Python, Docker, SQL

**Platforms:** GitHub Actions, Azure, AWS, Kubernetes, PostgreSQL, MS SQL, Jira, Linear, Slack

**Frameworks:** React, NextJS, Material UI, ASP.NET, Express, Fastify, NestJS, Prisma, Drizzle

# EDUCATION

## Boston University • BA Computer Science – 2015

**Awards**: Dean’s List.

**Graduate-level classes**: Machine Learning, Computer Audio, Computer Vision, Research Seminar (Applying Machine Learning to OS Kernels). Independent study and undergrad research in Programming Languages.