



# CHARLES CHEN

## Principal Software Engineer

TypeScript • C#/.NET • JavaScript • React • Vue • GCP • AWS • Azure

[chrlnschn.dev](https://chrlnschn.dev) 

[chrlnschn.medium.com](https://chrlnschn.medium.com) 

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West Windsor, NJ 08550 

Charles combines a unique mix of deep enterprise solution design and delivery experience with an entrepreneurial spirit fostered with his tenures at both bootstrapped as well as VC-backed startups.

He has over a decade of experience leading high performance software engineering teams building commercial enterprise software and SaaS used by customers such as Biogen, Novo Nordisk, Roche Diagnostics, and Boehringer-Ingelheim.

A hands-on engineering leader and builder to the core, his pragmatic approach to system design and architecture helps teams iterate and build rapidly from 0 to 1 and scale solutions from 1 to 1,000,000.

### Platforms

#### Amazon Web Services

AppSync, CloudFormation,  
CloudFront, Copilot, DynamoDB,  
EKS Fargate, Elastic Beanstalk,  
Elastic Load Balancer, Route 53, S3

#### Google Cloud

Cloud Run, Firebase (Auth,  
Functions, Firestore, Storage),  
Google Kubernetes Engine,  
Pub/Sub

#### Microsoft Azure

Azure Kubernetes Service,  
Cognitive Services, CosmosDB,  
Serverless Functions, SignalR,  
Service Bus

### Domains

Life sciences (Clinical, Reg Docs),  
E-commerce, Finance/Banking  
(Marketing)

### Founder

**zeeq.ai** • 09.2023 – Present • [zeeq.ai](https://zeeq.ai)

AI superpowers for your documents. Get answers from your existing documents using natural language questions. Instantly find the critical information that you seek from your SOPs, protocols, and critical process documents.

### Principal Software Engineer

**Turas Global** • 05.2023 – Present • [turas.app](https://turas.app)

Turas.app takes the pain out of planning your travel itineraries in Google Docs and Google Sheets. Share your travel story and publish your own micro-blog to share with the friends and family or other travelers from around the world!

### Principal Software Engineer, Founding Team

**Ownit Commerce** • 05.2022 – 05.2023 • [ownit.co](https://ownit.co)

A seed stage VC-backed startup, Ownit is building AI-powered experiences for e-commerce. Responsible for designing and implementing a distributed content-scraping and price ingestion pipeline monitoring prices across tens of thousands of products, building an AI categorization engine using OpenAI embeddings and Postgres vector search, and evolving the infrastructure approach from Elastic Beanstalk to container-based tooling. Guided and mentored junior engineers and interns.

### Lead Software Engineer

**Motion (YC W20)** • 02.2022 – 05.2022 • [usemotion.com](https://usemotion.com)

Full-stack application development of Motion's React frontend and Google Functions backend application with TypeScript on Node. Designed a Google Pub/Sub-based message-oriented architecture to provide greater system resiliency and address quota limitations with external service APIs. Implemented complex scheduling algorithms. Developed extensive Playwright browser test automation to support automatic end-to-end release validation.

## Stacks

### AI

OpenAI, Postgres Vectors,  
Embedding Search

### Frontend

CSS, HTML, JavaScript,  
TypeScript, [React.js](#), [Vue.js](#),  
Windows Forms / Win32 / PlInvoke

### Application/API

[.NET/Core](#), [ASP.NET/MVC](#), [C#](#),  
[EF Core](#), [GraphQL](#), [JavaScript](#)  
([Node.js](#)), [NHibernate](#), [REST](#), [WCF](#),  
[XML](#), [XPath](#), [XSLT](#), [ZeroMQ](#)

### Backend/Data

[CosmosDB](#), [DynamoDB](#), [Neo4j](#),  
[NoSQL](#), [Microsoft SQL Server](#),  
[PostgreSQL](#), [Firestore](#)

### Identity

[Auth0](#), [Azure AD B2C](#), [Cognito](#),  
[Exostar](#) (Ping Federate), [Firebase](#)

### Test

[BDD](#), [Cypress](#), [Unit Testing](#),  
[Playwright](#), [Taiko](#) + [Gauge](#)

### DevOps

[Docker](#), [GitHub Actions](#), [GitLab](#)  
[CI/CD](#), [Jenkins](#), [Kubernetes](#), [NPM](#),  
[PowerShell](#), [Shell Scripting](#)

## Education

### Rutgers University

New Brunswick, NJ  
B.Sc. Computer Science  
Minor - Mathematics  
1999 - 2003

## Senior Advisor

**Apprentice** • 09.2021 – 11.2021 • [apprentice.io](#)

Worked with CEO and senior VP leadership team to provide strategic guidance for GxP validation. Provided hands-on technical training to engineering and product teams using test automation with Playwright and document automation using Confluence.

## Session Presenter

**Azure Serverless Conference** • 09.2021 • [microsoft.com](#)

One of five community presenters for Microsoft's inaugural Azure Serverless Conference (North America). Prepared and presented an open source project for [a live session on building serverless architectures using .NET Azure Functions and Azure CosmosDB](#) to a global audience.

## Director of Engineering

**Innovocommerce** • 07.2011 – 12.2020 • [innovocommerce.com](#)

Managed the [investigatorFIRST](#) product pipeline from requirements scoping to development to multi-million dollar go-lives and ongoing support. The product is used by customers such as Novo Nordisk to manage secure exchange of essential documents.

Designed and implemented the core distributed, high-throughput batch event processing architecture using ZeroMQ to enable an event-driven architecture managing millions of nodes in a Neo4j graph database.

Collaborated with customer IT leaders to scope and design enterprise systems integrations to eTMF (Veeva Vault, FirstDoc), CTMS (Impact), and SSO ([Exostar](#), Ping Identity, [Office 365](#)). Coordinated cross-functional efforts across engineering, QA, and support leads.

Implemented code quality standards, defined SDLC processes, evaluated emerging technologies, planned engineering roadmap, expedited the QA process via automation and streamlined documentation, and refined the DevOps pipeline.

## Cofounder

**Thinktastic (v1)** • 01.2011 – 12.2020 • [thinktastic.net](#)

Conceptualized, designed, and developed a suite of products for [real-time, enterprise collaboration on SharePoint](#) via a web based XMPP client and Openfire Server.

## Independent Contractor and Senior Consultant

**Various** • 06.2003 – 01.2011

Independent contractor and senior consultant leading technical delivery teams working with various clients including ITT Industries, Dow Jones Factiva, Merrill Lynch, Citibank, Bank of America, Pfizer, Abbott Labs, Merck, GSK, Sanofi-Aventis, and more. (Details on request).