

Experience

onDiem - Principal Engineer

May 2024 to Present, Remote, VA - Dental Gig Economy Platform

Drove engineering strategy and delivery for a double-sided dental gig-economy platform. Established and operationalized an autonomous agentic focused SDLC and modern development practices across the organization. Led the transition to automated payroll, enabling scalable, compliant, and reliable operations. Defined core platform libraries, tooling, and architectural standards to improve consistency and velocity across teams. Led data engineering and business analysis initiatives to surface insights and identify revenue growth opportunities, informing product and operational decision-making. Acted as a technical mentor and advisor across backend, web, and mobile disciplines while governing and guiding multi-team initiatives from concept through delivery. [More Details.](#)

Uptech Studio - Co-founder/Partner/Staff Engineer/Architect

Nov 2016 to May 2024, Tustin, CA - Software Product, Design, & Development Consultancy

Uptech Studio is a Product, Design, & Development consultancy that I Co-founded & operated profitably for the past 7.5 years. During this time I not only ran the company but also operated as Staff Engineer, Architect & Lead across the various teams & projects. As you can imagine running Uptech Studio required wearing many different hats on a regular basis. I had to deal with all the normal complexities of hiring & managing engineers, as well as deal with the various business tasks in operations, business development, HR, and others.

As an Architect & Staff Engineer I worked on projects across many business verticals: Finance, Fitness, Public Radio, Contract Management, Analytics, Health, Automotive, Fleet Tracking, Insurance Tech, Developer Tools, and Productivity Tools. When consulting & contracting with clients I helped them their needs ranging from [strategic advising](#), [team mentoring](#), [architecting solutions](#), [staff engineering](#), [leading projects & teams](#), as well as [designing](#), and [writing software](#) across a variety of different programming languages, frameworks, and technologies. [More Details.](#)

Strategic Advising - participated in high level executive meetings to provide technical leadership and guidance for executives to be able to intelligently steer their business. This has ranged from researching & reporting on technologies such as VR/AR all the way to providing insights into existing team processes & technologies. It has also included consulting for negotiations and integration with financial institutions. Beyond that, it included providing guidance based on a wealth of experience and knowledge.

Architecting/Staff Engineering/Leading Solutions - architected solutions across a variety of different business verticals. I performed full stack architecture, lead teams, and built complex financial platforms, analytics platforms, including everything from cross-platform Web/Mobile interfaces down to the backend services that facilitate integrations and operations, generally mentoring others along the way.

Specialized Knowledge/Training - frequently clients needed specific guidance or help in an area of technology that I have specialized knowledge in. For example a client needed assistance with designing a streaming protocol for their solution. Another client needed help with binary protocol implementations for integrating with specialized devices. Other clients needed help with Testing and Testing Methodologies (TDD/BDD). While others needed help with learning better Git workflows & tooling. Some needed training on methodologies like Continuous Integration.

Skills

Languages

Rust / Swift / C / C++
Go / Kotlin / Scala / Java
Ruby / Python / Clojure
TypeScript / JavaScript
Dart

Datastore & Cache

PostgreSQL / MySQL
Cassandra / DynamoDB
Athena / Parquet
Firestore / iCloud
Redis / Memcached
SQLite

Transports & Encodings

GraphQL / REST
RPC / SOAP
JSON / XML
gRPC (Proto Bufs) / Thrift

Jobs / Messaging / Queues

Sidekiq / Facktory / Resque
Kinesis / Firehose / Kafka
RabbitMQ / SQS

Infrastructure as Code

Terraform / AWS
Kubernetes
Docker

Practices

TDD / BDD
Feature Toggles / Flags
Continuous Integration
Continuous Delivery

Architectures

Event-driven / Messaging
Client-Server / Pub-Sub
Service / Micro-service
P2P / Decentralized
Monolith / Hexagonal
Functional Core

Source Control

Git / Mercurial
Subversion / CVS

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Acorns Inc. - Lead Software Engineer/Architect

May 2015 to Nov 2016, Irvine, CA - Fin-Tech micro-investing Platform

Acorns is a micro investment platform enabling anyone to invest. I helped with scaling up the platform, from thousands of users to millions of users. Coordinated cross team initiatives. Educated people on architecture & development best practices. As well as lead the team responsible for monitoring all user transactions & facilitating affiliate and partner investments into user accounts based upon user purchases. [More Details](#).

ReachLocal Inc. - Engineering Director/Staff Engineer/Architect

July 2012 to May 2015, Santa Ana, CA - Small Business SaaS Platform

ReachLocal is an online marketing services company. While working for them I managed multiple teams of engineers in the US & India. Worked as Staff Engineer & Architect facilitating cross-team initiatives across the entire organization. Lead a team that architected, built, and operated an ad tracking platform as well as a SaaS Management platform to track potential customers. [More Details](#).

RealPractice Inc. - Lead Software Engineer

July 2010 to June 2012, Santa Ana, CA - Small Business SaaS Platform

RealPractice was focused on helping Lawyers with technology. I lead a team to build a SaaS platform targeted at lawyers covering everything from website building, lead generation & management, to matter management & invoicing. We then generalized the functionality and branding to support other verticals. [More Details](#).

RippleTV/TargetCast Networks, Inc. - Senior Software Engineer

Nov 2008 to Sept 2009, El Segundo, CA - Digital Out of Home Network

RippleTV was an Out of Home Network found in many businesses including Borders Books, Barnes & Nobles, Coffe Bean & Tea Leaf. While I was there, one of the more interesting projects was optimizing their ad scheduling software to make it much faster. [More Details](#).

Pliq LLC - Lead Software Engineer

May 2008 to November 2008, Los Angeles, CA - Mobile Phone Advertising

Pliq was a mobile advertising company specializing in live campaigns. I lead a small team to architect & build a SMS Campaign Management Platform as well as designed and built a light weight WAP site framework. [More Details](#).

The Aerospace Corp. - Member of Technical Staff

2000 to 2006, El Segundo, CA - Network Security Support for NSA, DOD, US Air Force, etc.

The Aerospace Corp. is an independent, nonprofit corporation operating the only FFRDC for the space enterprise. The Aerospace Corporation performs objective technical analyses and assessments for a variety of government, civil, and commercial customers. While there I architected & developed a distributed P2P overlay network, built network recon tools, built an intrusion deflection system, and provided network security support to NSA, DOD, & US AirForce. [More Details](#).

Skills

Backend Technologies
Axum / Rocket
Sinatra / Rails / Hanami
Express / NestJS / NextJS
Spring Boot / Struts
Django / Flask

Frontend Technologies
AppKit / UIKit
SwiftUI / Combine
Flutter / React Native
Jetpack Compose / Flow
Tailwind CSS / Tachyons
React / Angular

Operating Systems
Arch
macOS
Debian / Ubuntu
Fedora Core / Red Hat
CentOS
OpenBSD / FreeBSD
Windows / DOS

Shell Scripting
zsh / tmux / bash
csh / sh / tcsh

Editors
Neovim / vim
Xcode
VSCode

Publications
An Automated Reliable
Backup Solution - Linux
Journal Magazine - January
1st, 2007

Et Cetera
Check out my projects and
general thoughts at my site
<https://drewdeporte.com>

Education

Humboldt State University

Bachelor of Science, Computer Science, May 2008