
SKILLS

Languages & Technologies

C# / Python / Golang / MySQL / PostgreSQL + pgvector.rs

Kubernetes / Linux & Windows Administration / Bash

Design & Architecture

Network, cloud, and on-premise infrastructure / API and service design

EXPERIENCE

Appfigures

New York NY

Infrastructure Lead

Aug. 2022–Present

- Created the technical tooling and organizational process to allow teams to deploy and maintain their own services with minimal ceremony
- Lead initiatives to modernize our legacy .NET monolith and migrate to Kubernetes from manually orchestrated services across all tiers of our application
- Cut our cloud costs by 85%, using focused migration to colocated hardware; this involved extensively expanding our physical datacenter presence, modernizing our network infrastructure, and building out a Ceph cluster
- Proposed and deployed a new data warehouse (Doris) and ETL process to serve as the foundation for a new, strategically important suite of products
- Responsible, ultimately, for the uptime, availability, and delivery of the company's core products

Head of Engineering

Sept. 2016–Aug. 2022

- As part of the executive team, planned and executed cross-cutting engineering initiatives, delivering value to customers and other internal teams
- Lead and mentored other engineering team members, helping them grow and succeed

Backend Engineering Lead

Sept. 2014–Sept. 2016

- Designed and developed a new reporting and caching layer which drastically reduced latency and error rates
- Executed a full cross-site data-center migration with no downtime and a tight schedule
- Served as a technical mentor for other team members
- Created a system for horizontally sharding large internal datasets, reducing costs and increasing performance.

Software Engineer

Sept. 2009–Sept. 2014

- Specified and created a RESTful API for exposing all of the core product's data in a structured and available way
- Created a highly-available and scalable system for scraping, storing, and accessing data across all major mobile app stores
- Lead a backend transition from SQL Server to MySQL, eliminating license fees and increasing performance

JP Morgan Asset Management

New York NY

CDP Technology Intern

Jun. 2009–Aug. 2009

- Provided support for the infrastructure needs of a critical software initiative within the firm
- Developed a system for the synchronization and status monitoring of crucial database and application servers

Arc90 Inc.

New York NY

Software Development Intern

Jun. 2008–Aug. 2008

- Specified, designed, and implemented a major Java revision of a core logic service within a software ecosystem managing the life-cycle of catastrophe insurance policies

Fileitup Media

New York NY

Freelance Software Developer

Jan. 2008–Jun. 2008

- Architected, developed, integrated and tested web services that bridged the gap between brand-driven casual games and backend databases, allowing for collection of user metrics as well as allowing for the creation of a persistent, sophisticated, and more enticing experience for game players

EDUCATION

Pace University

New York, NY

Dual Degree Bachelor of Science in Computer Science & Bachelor Of Arts in Economics

2007–2011

Minors: Mathematics

Seidenberg School of Computer Science / Seidenberg Scholar & Dean's List First Honors

Coursework: Formal Software Development, Discrete Math, Game Theory, AI, Data Mining

GPA: 3.94 / Summa Cum Laude / Scholastic Achievement Award

references available upon request