

Experience

Software Engineer II

StudioC

August 2024 - February 2025

Conduct research, design and develop solutions, test and evaluate results, and oversee the implementation of projects to ensure that they meet desired specifications, regulations, and standards

- **ETL Systems** C# | PostgreSQL | Webhooks | Redshift | Python | duckdb
Maintained robust extract-transform-load systems tightly integrated with multiple APIs to load data into a data warehouse model. Regularly debugged data integrity and worked through production migrations. Provided custom SQL development for clientele data to derive insights into how customers utilized systems.
 - Optimized transform algorithms that resulted in an 140x speed increase
- **Segmented Audience Messaging Application** C# | PostgreSQL | VueJs | API Design | AWS Pinpoint
Maintained system for segmented audience communication via in-app dashboards, email, sms, and push notifications. Decreased issue ticket close time by 40%.

Full Stack Developer, Engagement Coordinator

Christians on Campus

July 2022 - August 2024

Championed development and adoption of new systems to streamline student engagement. Architected, designed, and implemented durable systems for everyday use. Maintained systems and developed new features in an agile environment based on user feedback and data insights.

- **Reading Schedule System** php | SQLite | Javascript | Cloudflare | Nginx | Redis | Docker
Personally owned the implementation of a low-cost SaaS platform to foster and coordinate group reading schedules for participants with complete branding customization, real-time collaboration, statistical insights, email reminders, multi-schedule management, and automated engagement.
 - Increased participation by 115% and allowed the student engagement team to make time-critical decisions from real-time statistical reports.

Conducted multiple weekly 1-on-1 appointments fostering an inclusive environment through addressing academic, financial, social, and faith-based challenges with empathy, diplomacy, and discretion to drive student success.

Full Stack Developer

Creative Sites Media, Inc.

Jan 2019 - Aug 2020

Working with UX designers, I end-to-end owned all of the following in multiple systems: researching problem domains, architecting systems, modeling database schemas, serving as the technical lead in development, releasing, and maintaining:

- **Digital Asset Management System** php | MySQL RDS | Apache | Vue.js | EC2 | Lambda | S3 | Google Vision AI
Organizes digital assets in a modern web interface with features including upload and download, public and private sharing, machine learning-based tagging, fuzzy searching in Elasticsearch, email notifications, file versioning, automatic conversions with imagemagick and ffmpeg, and archive extractions. Supported 1000s of internal and external users.
- **Engineering Change Notice System** NodeJS | MySQL | Vue.js | GraphQL
System to interface with product lifecycle management software automating the assignment of internal processes regarding engineering change notices. Saved hours of confusion for engineering change across from the prior process, increasing efficiency by 300%.
 - Supporting technologies included AWS AppSync, OAuth, API Gateway, and Cognito for authentication and API routing, Vue.js/Vuex and Vue router for the frontend, S3 for file upload and download, pdf.js for PDF editing, and the Materialize CSS framework.
- **Customer Relations Management System** Lambda | Serverless MySQL | Vue.js | Cognito | Cloudformation
A 100% AWS serverless system (API, database, crons, frontend, authentication) for managing customer leads and follow-up communication.

Application Developer Intern*Discover Financial***June 2018 - Aug 2018**

Worked double time across two agile teams to maintain core credit card and banking systems in Java and Spring Boot

- Performed cross-domain research in a focus group to uncover opportunities for entering new markets, presenting findings to a non-technical board of directors

Education

M.S., Computer Science*Georgia Institute of Technology***Jan 2025 - Present**

Asynchronous program, specialization in machine learning

Biblical Truth and Church Service Training*Anaheim, CA***Aug 2020 - July 2022**

Two-year post-graduate leadership training program. Curriculum includes theological courses, community engagement, leadership skills, and character training.

- Managed a team of 30 with its hardware and software processes for the recording, editing, archival, and distribution of 200 hours of class recordings.

B.S., Computer Science*Illinois State University***Aug 2015 - May 2019**

4.0 GPA, Dean's List 8 Semesters, 4-year winner of the Integrity Technology Solutions Scholarship, and Mobile App Development contest finalist. Additional, unrequired electives taken in distributed systems, parallel computing, artificial intelligence, machine learning, mobile development, cloud computing, database systems, and software design patterns

- Coursework included a variety of technologies leading to familiarity with Python, C, C++, Java, PostgreSQL, Memcached, SageMaker, CloudFormation, Azure Cognitive Services, Firestore, React Native, and Java Spring