

Experience

PayPal - Software Engineer II

2021 - present

Growth Team

- Implemented new cash products resulting in 18% increased engagement
- Migrated legacy backend environments to support service architectures reducing P0, P1 issues by 10%
- Support acquisitions of other services by integrating across platforms through a unified data layer using GraphQL
- Conducted benchmark and stress tests on enterprise systems and network controls
- Research failures and bottlenecks to determine appropriate solution
- Present to senior developers, technical managers and stakeholders about the state of technology and practices
- Conduct hands on workshops regarding software engineering and web design
- Monitored deployments on cloud hosting environments for usage and high availability

Product Team

- Focused on building out an in-house content management system to support all teams
- Developed AI/ML personalization platform for user promotions increasing transactions per capita by 30%
- Collaborated with managers, product designers and legal partners to develop features and architectures
- Built custom content management system and distributed applications with high throughput and low latency
- Interviewed candidates, mentored trainees, and hosted monthly Tech Talks to sr developers and managers on technical topics and industry trends
- Facilitate forum discussions on object oriented code, data structure and algorithms and testing
- Built for a variety of target devices including web and native platforms

Coinbase - Software Engineer

Data Science Team

2020 - 2021

- Conduct statistical analysis, data modeling, sanitation, imputation and standardization with pandas and numpy
- Develop dashboards and visualizations with seaborn and ggplot
- Develop supervised machine learning models using scikit-learn
- Conduct hypothesis testing, regression analysis and predictive analysis
- Develop web scraping scripts and automated testing
- Rearchitect multipage web apps into single page to improve performance by 17%

Product Team

- Worked on improving frontend experience by implementing automated testing in Datadog
- Migrated flagship product from monorepos to microservices reduced bundle size by 26%
- Develop a systematic content management strategy using Contently
- Collaborate with legal and financial authorities to ensure compliance and corporate responsibility
- Revamp corporate site to improve accessibility and increase lighthouse metrics by 45%
- Built HIPPA compliant persistence models, migration and data cacheing strategies: postgres, mongoDB, mysql
- Designed single page, client/server, serverless, JAMStack and service oriented architectures: React, NextJS

Thinkful - Software Engineer

2019

- Integrated persistence with relational or document/object-based database systems: postgres, mysql, mongoDB
- Designed responsive and accessible views with CSS and style preprocessors: CSS, SASS, styled-components
- Implemented security best practices with cross site scripting, request forgery, input sanitization and CORS
- Integrated token based authentication and authorization systems with appropriate hash and salt mechanisms
- Developed single page applications with frontend frameworks: React

Target - Senior Operations Manager

2014 - 2019

- Piloted technological initiatives such as online ordering, same-day delivery, self checkout and RFID operations
- Improved operations over 10% and reduced liabilities over 15%
- Managed retail operations of over \$75M in annual volume
- Grew online sales by 47% and improved gross margins by 38%
- Managed a team with 50+ direct reports achieving in highest number of promotions and cultural satisfaction

Apple - Software & Hardware Specialist

2010 - 2012

- Triage software and hardware issues
- Perform testing and analysis of critical electrical components and modules
- Managed technical appointments and traffic
- Verify and audit technical repairs, hardware upgrades, and data recovery and migrations
- Train and develop peers and new employees

Dept. of Biology - Team Leader

2013 - 2014

Florida International University

- Lecture undergraduate pre-med students in Biology I & II
- Administer testing and practice a variety of active learning pedagogies
- Plan, build and present curriculum covering topics in physics, biology and chemistry
- Collaborate with staff and faculty to assess and improve student engagement and performance

Education

University of Colorado, Boulder - Master of Science, Electrical Engineering

2024

Florida International University - Bachelor of Arts, Liberal Studies & Biology

2014

Skills & Technologies

typescript, javascript, python, rust, node.js, postgres, sql, mongodb, jenkins, cypress, jest, react, next.js, solid.js, unix, docker, npm, git, html, css, graphql, amazon web services, s3, cognitodb, vercel, heroku, strapi, contentful, data analytics, data science, testing, object oriented, frontend development, backend development, mobile development