

Carlitos Willis | Software Engineer

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Education

University of California, Berkeley | Bachelor of Arts, Cognitive Science 2021

Galvanize | Hack Reactor Advanced Software Engineering Immersive Program

Fresno City College | Associate of Arts, Interdisciplinary Science

Relevant Berkeley Courses | INFO155 – Intro to High-Level Programming [Python], CS61A – Structure and Interpretation of Computer Programs, CS61B – Data Structures and Programming Methodology, COGS190 – Neuronal Communication and Networks, COGS131 – Computational Models of Cognition

Software Engineering Projects

/Ezzy Shop | Back End Engineer | AWS, PostgreSQL, Express, Node.js, K6, Loader.io, Nginx, Redis

Product listing for general e-commerce site– included product info, reviews, related products, and images

- Decreased response time by 230 to 70 ms by remedying database schema bottlenecks and caching.
- Narrowed database options quickly by using Docker and Grunt to automate setup and testing.
- Boosted load capacity from 200 to 800 RPS with an Nginx load balancer, Redis, & 5 micro instances.

/Yellow Blocks | Full Stack Engineer | AWS, MongoDB, Express, React, Node.js, Jest, Webpack

E-Commerce site with image carousel, info sections, and an accordion section with reviews and more

- Cut page load speed to under a second via compression and web-optimizing media.
- Segmented project into microservices and utilized CSS modules to avoid styling and merge conflicts.
- Implemented dynamic & conditionally styled React components to enhance experience & clarity.

/silentSHOUT | Full Stack Engineer | Express, React, Node.js, Styled-Components, Socket.IO, Docker

A secure and volatile instant messaging platform that stores only specified messages

- Utilized Socket.IO and PostgreSQL to instantly transmit messages and store saved messages.
- Exploited Socket.IO functionality to allow the creation of unlimited unique & untraced chat rooms.
- Dockerized application to simplify deployment & increase scalability.

Experience

Digital Marketer, Producer, Graphic Designer | Freelance | NYC + LA 2018 - 2020

- Systematize the creation and marketing of captivating content – augmented by software solutions.
- Generate and nurture leads for businesses and artists by building landing pages with tracking pixels.
- Partnered with community members to mentor and teach music, marketing, & business development to marginalized youth in the Bronx.

Media Fellow | UC Student Association | Berkeley, CA 2017 - 2018

- Increased reach on Twitter & Facebook with ads, analytics, and automation via the Twitter API.
- Led the production of content & promotional materials e.g. publications, brochures, merch, & posts.
- Streamlined communication across 9 UC campuses to aid in copywriting and social media projects.

Technical Skills, Technologies, and Interests

Front End + Back End | Python, JavaScript (ES5/ES6), React, Node.js, Express, jQuery, Nginx, PostgreSQL, MySQL, AWS CLI/EC2/RDS, MongoDB, Cassandra, CSS3, HTML5, Styled-Components, Chart.js, Socket.IO,

Tools + Techniques | Git, Webpack, Docker, Jest, Heroku, New Relic, Trello, Asana, ESLint, Selenium, Puppeteer, CircleCI, Mocha, Chai, Python, Postman, Schema Design, Agile, Test-Driven Development

Interests | Marketing, Design, Music Production, AI, Generative Art, Sci-Fi/Fantasy, Audiobooks