

# Carlitos Willis | Software Engineer

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## Technical Skills, Technologies, and Interests

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

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

**Interests** | Digital Marketing, Graphic Design, Music + Music Production (Ableton, Korg, VCV Rack + Modular Synthesis), Artificial Intelligence, Generative Art, Sci-Fi Fantasy, Audiobooks

## Software Engineering Applications

**/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

**Software Engineer, Marketer, Graphic Designer** | Freelance | NYC + LA 2018 - PRESENT

- 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 teach music, music marketing, & business development and mentor marginalized youth in the Bronx.

**Media and Communications Manager** | 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.

## Education

**Galvanize** | Hack Reactor Advanced Software Engineering Immersive Program 2020

**UC Berkeley** | Cognitive Science Major, Computer Science Minor 2017

**Fresno City College** | Associate of Arts, Interdisciplinary Science 2014