# 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

## 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

**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

**University of California, Berkeley** | Bachelor of Arts,  Cognitive Science          2021
**Galvanize** | Hack Reactor Advanced Software Engineering Immersive Program          2020
**Fresno City College** | Associate of Arts, Interdisciplinary Science          2014

**Berkeley Computer Science Courses** | Info 155 – Intro to High-Level Programming, CS 61A – Structure and Interpretation of Computer Programs, CS 61BL – Data Structures and Programming Methodology. Cog Sci 190  – Rhythms of the Brain: Neuronal Communication and Networks [Computational Models of Cognition]

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