# Daniel Smith

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Computer Science, B.S.

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## EXPERIENCE

### USC Laboratory of Neuroimaging — *Software Engineer*

May 2017 - PRESENT
Stack: Golang, PHP, MySQL, Bootstrap, Iris, Docker

❖ Wrote a multi-threaded Golang service to scrape links off department websites. Limited the concurrency of the parallel goroutine requests with a semaphore to cap channel creation and reduce server load.

❖ Generated automated analytics for each department site from scraped data. Managed site content and fixed errors found in reporting software.

❖ Built REST API endpoints and backend features in Golang for a custom internal content management system used to manage user data and information across all of our department sites

❖ Used Docker to separate sites into localized environments for local development, and deployment with docker-machine

❖ Worked in a loose Agile environment with project managers, designers, and other developers using JIRA, engaging in weekly scrums, and Git

### Freelance/Contract — *Full Stack Developer*

July 2015 - PRESENT
Stack: Angular, NodeJs, Firebase, Python. Typescript, Bootstrap

❖ Built ticket exchange web application for a startup (contracted):
  - Used Firebase to mock the application data for local development with the backend API before deploying the app to Amazon Web Services
  - Built out user interfaces in Angular and Angular material based off given mockups designed by a separate contractor

❖ Built Python web scraper to gather restaurant menus and pricing data from Doordash's website using for analysis and display on client's site

### USC Trojan Events — *Webmaster*

June 2016 – May 2017
Stack: PHP, Codeigniter, NodeJs, Bootstrap

❖ Built new backend features for the internal content/employee management system based on requests by department managers

## SELECT PROJECTS

### Distributed PoW P2P Blockchain and Cryptocurrency

Stack: NodeJs, ExpressJs

❖ Wrote a distributed peer-to-peer server with websockets to implement the Proof-of-Work algorithm in a blockchain built from scratch

❖ Generated blocks of transactions, signed with encryption keys, and added to the ledger which is verified and synced across all nodes on network

❖ Built cryptocurrency on top of network and created REST api to manage it

## SKILLS

### Languages
Golang
Javascript
Python
PHP
Java
C++
Typescript
HTML/CSS

### Frameworks/Libraries
Angular
Angular Material
React
React Native
Vue
Bootstrap
NodeJs
ExpressJs
Iris
HyperLedger
Codeigniter

### Databases
MySql
PostgreSQL
MongoDB
Firebase

### Platforms/Stacks
AWS
Google Cloud
Heroku
Firebase(serverless)
LAMP Stack
MEAN Stack

### Tools/Software
Docker
Jira
Github/Gitlab
Agile