

# Nicholas Roberts

UC San Diego 2018 (3.9)

B.S. Computer Science,  
Mathematics Minor

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## Skills

### **Languages (experienced)**

Python, Java, C, C++, Go, MySQL, HTML,  
JavaScript, Jade, Sass, CSS, NodeJS,  
jQuery

### **Languages (competent)**

Scala, Groovy, SPARC assembly, Matlab,  
Bash, Objective-C

### **Frameworks + Libraries**

Android, Django, Harp, Google App Engine,  
Amazon AWS, Flask, NLTK, Bootstrap, iOS

### **Other knowledge**

Linux, object oriented design, agile  
software development, quantum  
information theory, quantum computing,  
neural networks, unsupervised machine  
learning

## Speaking Events

### **GDG Devfest**

Presented two lectures on Android  
development at Google Developer Group  
Devfest

### **GDG Fresno**

Presented Llama Button Android app at  
Google Developer Group Fresno meeting

### **GDG FCC**

Presented an intro to quantum computing  
at Google Developer Group Fresno City  
College meeting

## Experience

### **Cofounder @ skqrl.com (Summer 2016 - )**

- ⚡ Went beta after writing image upload, search, edit experience, edit profile, posting, notifications, invite code system, web crawler, and autocomplete in Django
- ⚡ Brought hundreds of new users to the invite only beta program

### **Web Developer @ brainfoodproject.org (Summer 2016 - )**

- ⚡ Launched site after writing full site stack in Go, gohtml, and CSS on Google App Engine
- ⚡ Taught other developers how to use Google App Engine and Google Domains

### **Web Developer @ The Comeback Community (Summer 2016 - )**

- ⚡ Developed site in Go, gohtml, and CSS on Google App Engine
- ⚡ Helped new developers on the team learn to write a website

### **iOS Intern @ Modspot (Spring 2016)**

- ⚡ Implemented new user account, edit profile, and login designs in Objective-C

### **Tutor @ FCC Tutorial Center (Spring 2014)**

- ⚡ Helped students understand computer science and math concepts
- ⚡ Tutored everything from elementary algebra to calculus

### **Student Aide @ FCC CIT 65, Android App Development (Spring 2014)**

- ⚡ Helped students debug Android assignments and helped to reinforce Java concepts
- ⚡ Helped instructor get reliable feedback from students regarding course logistics

## Education

### **UC San Diego 2018 (3.9)**

Software Engineering (CSE 110), Neural Networks (CSE 190, ip), Advanced Data Structures (CSE 100, ip), Mathematical Reasoning (MATH 109), Quantum Information Theory (MATH 217), Unsupervised Machine Learning (COGS 118B, ip)

## Projects

### **Uncertaintyscript**

- ❏ Quantum gate scripting language created at HackTech
- ⚡ Written in Scala using ScalaNLP Breeze and follows the interpreter design pattern

### **nlp-api.org**

- ❏ Dockerized web API for sentiment analysis on JSON formatted data
- ⚡ Written in Python using NLTK, Flask (API), Redis, and Docker using docker-compose

### **Llama Button**

- ❏ Android app that displays llamas at quantum random coordinates from the ANU Quantum Optics Lab in Canberra, AU
- ⚡ Written in Java on Android using JSON data from ANU Quantum Random Numbers Server

### **NoteSRS**

- ❏ Android app parody of autocorrect that crowdsources autocorrections
- ⚡ Written in Java on Android, Google App Engine, Google Cloud Endpoints, and Datastore

### **Jordan Bot**

- ❏ A chat bot that quickly learns your language and sentence structure through conversation
- ⚡ Written in Java on Google App Engine using JGraphT, Objectify, and Google Cloud Datastore

## Organizations

### **Founder @ Google Developer Group FCC**

- ⚡ Advocated Fresno's growing tech scene by promoting local tech events and inviting guest lecturers
- ⚡ Developed and presented code labs for club members

### **Treasurer @ FCC Science and Engineering Club**

- ⚡ Introduced members to new science topics by inviting guest lecturers
- ⚡ Helped organize fundraisers and events