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# CAMERON FRANKLIN

## Education

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### University of Southern California

MS Computer Science

GPA: 3.2 , GEM Fellow

### Pepperdine University

BS Computer Science/Mathematics August 2018-May 2021

GPA: 3.4, SPE Honors

## Employment

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### Reddit

San Francisco (Remote), CA

Software Engineer

February 2024 – Current

- Full-stack engineer on Mission Control team; developing centralized, internal tooling
- Implementing solutions in Python, PostgreSQL, SQLAlchemy, & Lit Element among others
- Developing mission critical features changes under limited time constraints

### Reddit

San Francisco (Remote), CA

Software Engineer Intern

May 2022 – August 2022

- Contributed to the development of an engine for sustainable self-serve advertiser growth while working with full-stack applications
- Developed in Python, Postgre, SQL, React (Components, TypeScript) and BigQuery. Developed Python models that interacted with databases

### Pepperdine University

Malibu, CA

Application Developer Intern

June 2020 – July 2021

- Independently developed full-stack web applications/forms using Microsoft's ASP.NET framework for the University's website
- Exposed to the full development life cycle, including AGILE methodology (requirements gathering, software design, software development, testing, documentation, and end user training). Maintained and administered existing code for University webpages

### Franklin Realty & Investments

Lancaster, CA

Software Engineer

October 2021 – January 2022

- Ongoing freelance website development for my father's real estate company (part-time contract work)
- Implementing frontend (React) and backend (ASP.NET MVC) local search engine tool for available properties, using public API database (Zillow). Implementing additional features for clientele using a web-scraped SQL database I created and maintain.

### Northrop Grumman Corporation

Palmdale, CA

Engineering Intern

Jan. 2018 – May 2018

- Assisted systems engineers in analyzing system capabilities to resolve problems with output requirements, input data collection, diagnostic tests, and programming techniques.
- Aided in the investigation of aircraft non-conformances & developed local additive manufacturing processes using 3D CAD software

## Projects

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### US Patent: IRIS Mobile Proximity Security System

January 2018 – Current

Links: <https://lemelson.mit.edu/teams/soar-early-college-high-school-inventeam>, <https://bit.ly/3bsN5Su>

- Mobile security device receiving U.S. Patent No. 10, 529, 216 in January of 2020.
- Lead application development of the mobile Bluetooth companion app, developed in Android Studio, that received data from the IRIS device (Java).
- Responsible for testing and debugging issues with Arduino breadboard components, Bluetooth modules (transmitter/receiver), and Android Studio application. Product received \$10,000 MIT InvenTeam Grant

### Topic-Based Targeting Search Feature in Reddit Ads UI

May 2022 – August 2022

- Reddit formerly had a keyword-based search feature for advertisers to use to target communities to market towards
- I implemented a new topic-based search in their Ads UI which significantly expanded community audience reach

## Coursework

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Multimedia Systems Design  
Natural Language Processing  
Database Systems  
Analysis of Algorithms  
Introduction to Search Engines  
Advanced Computer Networks  
Security Systems  
Data Structures  
Programming Paradigms  
Programming Principles  
Operating Systems  
Discrete Structures  
Automata Theory  
Computer Networks

## Skills

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### PROGRAMMING LANGUAGES

Python  
JavaScript  
TypeScript  
C#  
C++  
Java

### WEB DEVELOPMENT

React  
Lit Element  
Node.js  
Express.js  
jQuery  
Pyramid  
ASP.NET MVC  
HTML/CSS  
SSH

### DATABASES

SQL  
graphql  
MongoDB

### CLOUD COMPUTING

Azure  
AWS

### SOURCE MANAGEMENT

Git  
GitHub