

Zabrina Patterson

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SKILLS

LANGUAGES

Python • C++ • C • Java
JavaScript • SQL • MongoDB

FRAMEWORKS

Flask • Django • Qt • Bootstrap

TOOLS

JetBrains • VS Code • Eclipse
Android Studio • MySQL • SQLite
AWS • AutoSys • Git

COURSEWORK

Machine Learning and Data Mining
Databases and Web Applications
Data Management
Information Retrieval
Artificial Intelligence
Embedded Software
Computer Networks
Human Computer Interaction
Software Engineering
Computer Organization
Principles in System Design
Data Structures
Object-Oriented Programming

In Progress:

Design and Analysis of Algorithms
User Interaction Software
Internet of Things Software & Systems

AWARDS

CITY OF PASADENA

CERTIFICATE OF RECOGNITION

Nov 2014

Successfully performed CPR and used an AED on a coworker experiencing cardiac arrest.

UNITED STATES AIR FORCE

DISTINGUISHED GRADUATE

Mar 2010

Top overall grade during weather technical school.

DISTINGUISHED GRADUATE

Jul 2009

Top EOC test score during basic military training.

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

BS IN COMPUTER SCIENCE, MINOR IN INFORMATICS

Expected June 2020, Cum. GPA: 3.7

PASADENA CITY COLLEGE

AA IN NATURAL SCIENCES, AA IN ENGINEERING AND TECHNOLOGY

Aug 2017

COMMUNITY COLLEGE OF THE AIR FORCE

AAS IN WEATHER TECHNOLOGY

May 2013

PROJECTS

LEARN THE LINEUP

Python, Django, SQLite, Bootstrap | Apr 2018

learnthelineup.pythonanywhere.com

A web application for discovering and rating every artist on a music festival's lineup. Utilizes Spotify API to query each artist's information and play their most popular songs. Generates custom playlists based on the user's favorite artists.

FABFLIX

Java, SQL, Android | Mar 2019

A web/mobile app to browse/search a database of movies and actors, add movies to a shopping cart and check out. Implements full-text search, autocomplete, stored procedures, prepared statements, XML parsing, session management, HTTPS, password encryption, reCAPTCHA, connection pooling, master-slave servers, and load balancers. Deployed using Maven, Tomcat, AWS, and Google Cloud.

EXPERIENCE

PIMCO

TECHNOLOGY ANALYST INTERN

Jun 2019 - Aug 2019

Newport Beach, CA

- Built a self-service scheduling tool for the Data Science Platform that allows any user to automatically run Jupyter notebooks
- Created user and admin dashboards to easily view/create/modify/delete schedules in one place
- Automated the existing notebook scheduling workflow and added safeguards and notifications

UNITED STATES AIR FORCE

WEATHER FORECASTER

May 2009 - Mar 2013

Joint Base Pearl Harbor-Hickam, HI

- Produced graphical, written, and oral weather forecasts for military pilots
- Analyzed data from weather charts, radar, satellites, and computer models
- Issued warnings with time restraints requiring quick, accurate decision-making
- Coordinated with other agencies to establish consistency on forecast decisions