SARINA XIE

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github.com/sarinaxie

EDUCATION

Columbia University – **Engineering**   New York, NY
B.S. Computer Science   May 19

COURSEWORK

Data Structures   Algorithms   Advanced Databases   Visual Databases
User Interface Design   Networks   Distributed Systems   Intro Robotics   GIS

SKILLS

Python   Java   C++   C   Go
Flask   React   Node.js   JavaScript   JQuery   AJAX   Bootstrap   CSS   HTML5
GraphQL   SQL   PostgreSQL   NumPy   AWS   Google Cloud   VBA   ArcGIS

WORK EXPERIENCE

COSMOS Project at Columbia University   New York, NY
TRAFFIC RESEARCH INTERN   May 19–Sep 19

Building an accurate model of NYC street traffic using OpenStreetMap, SUMO and C++

Predicting how connected vehicles will behave in the real world by simulating communications between vehicles and a network using OMNET++ and C++

Japan Society   New York, NY
DATA ANALYST INTERN   Sep 18–Jan 19

Led the data strategy for analyzing patron data; improved marketing campaigns targeted at thousands of users by identifying patterns in visitors' purchase histories using Python

Automated data preprocessing for analytics using VBA

EquiLend   New York, NY
DATABASES/DATA ANALYST INTERN   Jun–Aug 17

Designed and implemented tables in an Oracle data warehouse to facilitate reporting and analysis

Wrote complex SQL queries to pull data for ad-hoc reports for business partners; to improve data quality by investigating irregular patterns for errors

PERSONAL PROJECTS

Fire Emblem Quote Generator   Oct 19
Designed and coded a mobile-friendly web app where visitors can edit quotes onto screenshots from an embedded YouTube video using Bootstrap, JQuery, and Flask
Used AWS EC2 and Route 53 to host the web app – visit at **http://sarinaxie.com/fe3h**

ACADEMIC PROJECTS

The Face Face-off   May 19
Built a database of comic character faces that was searchable by image upload, with a recall rate of 70% using Python and OpenCV
Designed a web interface for interacting with the database

Library Helper   Apr 19
Created a personal book recommendation search engine web app using Python, Flask, and PostgreSQL
Designed an intuitive and neat UI using Bootstrap, HTML, CSS, and JavaScript

Paxos   Nov 17
Implemented Paxos, a protocol for reaching distributed consensus in Go