
EDUCATION

University of California, Los Angeles

Academic Major: Computer Science, BS

Los Angeles, CA

SUMMARY OF SKILLS

- *Programming Languages:* C++, C, C#, Java, JavaScript, Python, Ruby
- *Other Skills:* SQL, HTML/CSS, Linux, Git, React.js, Node.js, Ruby on Rails, Tsung, Unity API, Jira, AWS Elastic Beanstalk
- *Completed Coursework:* Database Systems, Operating Systems, Data Structures and Algorithms, Computer Network Fundamentals, Software Construction Laboratory

PROFESSIONAL EXPERIENCE

Planetary Gaming

Unity Development Intern

Los Angeles, CA

- Collaborated with a small team and discussed design concepts in the development of 'NovaSnake', an augmented reality, endless-runner game
- Wrote C# scripts that manage gameobject behavior, scene sequences, and player statistics
- Utilized persistent storage provided by the Unity API and a dictionary to implement a diary feature

PROJECTS

Incognito

Scalable Internet Services Project

UCLA

- Built a Ruby on Rails web application that serves as an anonymous forum for college students
- Developed a RESTful API for managing backend database models, such as users, sessions, posts
- Implemented scaling techniques including vertical and horizontal scaling, client and server-side caching, database query optimization, threads and processes optimizations
- Load tested by writing Tsung scripts that simulate user sessions and actions, such as visiting pages, making and deleting posts, signing up, logging in, logging out

TuneSearch

Database Systems Project

UCLA

- Implemented the backend of a Flask web application in Python that searches a PostgreSQL database of songs for the best matching lyrics using their TF-IDF scores
- Wrote injection-protected SQL queries to acquire the desired search results
- Used materialized views to store intermediary results in cache and implement pagination

Cribbr

Personal Project

- Developing a web application using React.js and Node.js, that allows users to manage housemate responsibilities, including laundry, groceries, chores
- Full-stack software development of a message board feature and a calendar feature
- Used Cloud Firestore from Google's Firebase API to store and retrieve data from users