Willis Wang

Software Developer

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Education

B.A. Computer Science   UC Berkeley
3.74 GPA   August 2018 - May 2022

Courses taken: Data Structures, Algorithms, Machine Structures, Operating Systems, Networking, Artificial Intelligence, Discrete Math, Probability Theory

Experience

Software Engineer Intern   8th Wall
May 2020 - August 2020
- Work with AWS to build new tools and restructure cloud-side backend infrastructure
- Streamline development process by building automated database migrations and CDN updates synchronized to git
- Design and build customer repository backup and restoration framework

CS182/282A Reader   UC Berkeley
Janurary 2020 - May 2020   Berkeley, CA
- Reader for upper division Neural Network course CS182/282A
- Assist in assignment release and rubric creation, grading both homeworks and exams

Open Computing Facility Staff   UC Berkeley OCF
January 2018 - Present   Berkeley, CA
- Contributes to keep OCF running as a staff member of the Open Computing Facility
- Services hundreds of students per day
- Worked on multiple projects including student RIFD verification using Python and SQL

CS61B Academic Intern   UC Berkeley
September 2018 - December 2018   Berkeley, CA
- Help over 40 students gain a deeper understanding about core data structures, abstract data types, algorithms, basic principles of software engineering, and the Java programming language
- Strong foundation in OOP, Dynamic Programming, Graph Traversal, Data Structures, and Sorting Algorithms
- Hosts weekly reviews focused on conceptual applications

Projects

PintOS
Feburary 2020 - May 2020   C
- A simple operating system framework for the 80 x 86 architecture
- Implemented kernel syscalls, processes, scheduling, filesystems, caches, etc.

TSP Variation Approximator
December 2019   Python
- Write an optimal solution finder for a version of the TSP problem
- Uses a combination of approximation algorithms such as Chistofides, k-means clustering, and local search to find a valid and cost-efficient solution

Uwu bot
August 2019   Python
- Created an verified Discord bot with over 100 servers joined which automatically translates comments
- Supports advanced functionalities such as multi-server management, database storage, and message editing

Languages

Programming Languages: C/C++, Java, Python, SQL, HTML/CSS, Javascript (Node, Express)

Operating Systems: Linux, macOS, Windows

Languages: English, Chinese