

Dennis Gill

EDUCATION

University of California, Davis

B.S. Computer Science and Engineering, B.S. Political Science

Expected Graduation: June 2019

PROGRAMMING PROJECTS

Projects :

- Coded fully-functional B-tree insertions and deletions
- Wrote Dijkstra's algorithm to find the shortest paths between a series of cities
- Wrote an efficient airplane boarding program to minimize boarding time using stacks and queues
- Wrote Huffman encoding each of the characters in the file using binary heap and B-Trees
- Translated numerous small projects from C code to Assembly language

Personal Projects:

- Developed iOS Application which organizes student classes returns projected course grades/required score to achieve desired grade.
- Wrote CPU cache simulator to minimize the time as well as the number of reads/writes to/from simulated RAM caused by cache misses

RELEVANT COURSEWORK

Data Structures

Computer Architecture

Databases

Object Oriented Programming

Machine Language

Advanced Calculus

SKILLS

Technical: C, C++, Java, Python, Rust, Swift, Prolog, Assembly language for x86, SQL, VMware, MS Office, Windows Server, HTML, CSS, MATLAB

Languages: Fluent in English, Hindi, Punjabi, Urdu and Mandarin

EXPERIENCE

Computer Networks Technician, UC Davis Bookstore

August 2017 - Present

- Manage and maintain department networks/servers
- Install and maintain computer operating systems hardware and software packages
- Manage campus DHCP and DNS servers
- Ensure campus networks are configured for optimal security

Aggie Host Security Supervisor, UC Davis Police Department, Davis, CA

January 2014 - August 2017

- Evaluate risk probability for campus special events and mobilize appropriate assets
- Provide support for department CAD/GIS Mapping systems
- Manage and maintain ride hailing application via pushing software patches
- UC Davis Police Department liaison to ASUCD and Unitrans

Aggie Host Security Officer, UC Davis Police Department, Davis, CA

November 2013 - January 2014

- Enhance campus diplomacy by providing vehicular transports for students and dignitaries
- Minimize risk through access control countermeasures; drew up exit strategies for venues
- Manage large crowds of 100 plus people and to execute stringent inspection protocol

Student Computer Technician, Moreau Catholic High School, Hayward, CA

February 2011 - June 2013

- Service malfunctioning computer machines; replace hardware components and configure OS