CHENGWEI GUO

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EDUCATION

Nanjing University, Nanjing, China   *September 2017 - June 2021 (expected)*
Bachelor of Science in Electronic Information Science and Technology   GPA 87/100

University of California, Berkeley, CA   *January 2020 - June 2020*
Computer Science, Exchange Student   GPA 4.0/4.0

Course work: Discrete Mathematics, Probability and Stochastic Process, Data Structure and algorithms, Operating System and Linux Programming, Digital Image and Video Process, C++ and Object Oriented Programming, **CS61A:** Structure & Interpretation of Computer Programs, **CS186:** Introduction to Database Systems, **CS188:** Introduction to Artificial Intelligence

HIGHLIGHTED EXPERIENCE

VISG Lab Research Program   *September 2019 - January 2020*
Undergraduate Research Student - Nanjing University   *Nanjing, China*

- Built the entire project from concept to demo. General idea was to get the 3D model of human's arms with orientation from a single picture for Reinforcement Learning.
- Used OpenCV:Aruco library to get enough orientation information for modeling and used OpenGL to build a 3D model

Embedded System Development   *September 2019 - January 2020*
Embedded System Lab - Nanjing University   *Nanjing, China*

- Customized, compiled Linux kernel for BeagleBone-Black and built up a Linux system
- Controlled a LCD device and built up a frame buffer library, implemented an application for displaying a bmp picture
- Employed modules and IO Control over LEDs
- Transplanted a library (tslib) to Linux and designed a playable game based on tslib and touch screen

HIGHLIGHTED PROJECTS

A Simple Database Management System   *January 2020 - May 2020*
Course project: CS 186   *Berkeley, CA*

- Built a simple database management system from scratch
- Implemented a B+ tree index, joins and query optimization, locking, concurrency management
- Developed a simplified ARIES recovery system

ICQ: A Chatroom Application with Simple UI Design   *April 2019 - May 2019*
Course project: Operating System and Linux Programming   *Nanjing, China*

- Implemented LAN real-time message transmission, message broadcasting, real-time chatting, and file transmission functions.
- Designed a set of UI with QT creator

HONORS

- 'Jinxiao' academic scholarship - top 5%, 2020, Nanjing University
- People's academic scholarship - top 15%, 2019, Nanjing University

LANGUAGE & SKILLS

Language:	Chinese(native), English(fluent)
Skills:	C++(advanced), Python(advanced), C(advanced), SQL(Proficient)
Tools:	Linux, Markdown, Git, MATLAB, LaTeX