

CHENGWEI GUO

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EDUCATION

Nanjing University

BSc, Electronic Information Science and Technology

Nanjing, China

September 2017 - June 2021 (expected)

- **GPA:** 87/100
- **Coursework:** 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,

University of California, Berkeley

Computer Science Exchange Student

Berkeley, CA

January 2020 - June 2020

- **GPA:** 4.0/4.0
- **Coursework:** Structure & Interpretation of Computer Programs, Introduction to Database Systems, Introduction to Artificial Intelligence

HIGHLIGHTED EXPERIENCE

Visual Sensing and Graphic Lab Research Program, Nanjing University

Undergraduate Research Student

Nanjing, China

September 2019 - January 2020

- Aimed to produce a 3D model of human arms with orientation information from a single picture for reinforcement learning
- Built the entire project from concept to demo
- Used the OpenCV:Aruco library to get enough orientation information for modeling and used OpenGL to build a 3D model

Embedded System Lab, Nanjing University

Embedded System Developer

Nanjing, China

September 2019 - January 2020

- Customized and compiled Linux kernel for BeagleBone-Black and built a Linux system
- Controlled an LCD device, built a frame buffer library, and implemented an application to display 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

Course project: Introduction to Database Systems

A Simple Database Management System

Berkeley, CA

January 2020 - May 2020

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

Course project: Operating System and Linux Programming

ICQ: A Chatroom Application with Simple UI Design

Nanjing, China

April 2019 - May 2019

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

HONORS

Nanjing University

People's academic scholarship, Second Class (top 10%)

People's academic scholarship, Third Class (top 15%)

Nanjing, China

2020

2019

LANGUAGE & SKILLS

- **Language:** Chinese (Native), English (Fluent)
- **Skills:** C++ (Advanced), Python (Advanced), C (Advanced), SQL (Proficient)
- **Tools:** Linux, Markdown, Git, MATLAB, \LaTeX