

# Boyu CHEN

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## EDUCATION

### University of California, San Diego

San Diego, CA, U.S.

*M.Sc in Electrical and Computer Engineering*

*Mar. 2023*

- Selected Courses: Data Structure, Networked Systems, Computer Architecture, Computer Vision

### Zhejiang University

Hangzhou, Zhejiang, China

*B.Eng in Electrical Engineering*

*Jun. 2020*

- Honors & Awards: Honorary Title of Excellent Graduation Project (2020), Inventronics College-set Scholarship (2019), Excellent Social Work Scholarship (Twice, 2017 2019), Outstanding Student Leader Awards (2017), etc.

## SKILLS

**Programming Languages:** C/C++, Java, Python, Golang, HTML/CSS, JavaScript, SQL, Matlab

**Framework & Tools:** Docker, Bootstrap, Spring Boot, React, Vue, Node.js, Git, Ajax, Flask, Express, RESTful, socket, MongoDB, Django

## EXPERIENCE

### iFLYTEK Co., Ltd.

Hangzhou, Zhejiang, China

*Software & Machine Learning Intern, iFLYBUDS Consumer Business Group*

*Jul. 2020 - Dec. 2020*

- Collected individual words from voice conversion engine; performed data cleaning; reorganized them into complete sentences according to natural language semantics; deployed the project via python-flask
- Analyzed conversation contents; utilized Logistic Regression to identify unstable network(90% accuracy)
- Implemented TextRank algorithm by calculating cosine similarity; extracted top 2 sentences as article summary

### Purdue University

West Lafayette, IN, US

*Research Assistant, Advisor: Meng Cui*

*Jul. 2019 - Sep. 2019*

- Deep Fog Imaging:** Built a spatiotemporally-gated detection system to filter out deep fog(scattering background and shot noise); yielded high resolution and contrast image; published the results on *Optics Express*
- Real-time Image Stabilization:** Generated triangle signals in vertical directions to control laser scanning speed; collected data gravity core as feedback for real-time image motion tracking and correction(200Hz)

## SELECTED PROJECTS

### YelpCamp Interactive Web Development

*Jul. 2022 - Aug. 2022*

- Deployed webpage with Bootstrap, used Express and MongoDB for realizing RESTful API
- Developed sign-in API(account & password creation) with Passport.js and Node.js
- Invoked Google Maps API to provide location guiding; implemented user data saving module

### HIV-TRACE Graph Representation in C++

*May 2022*

- Pre-processed HIV sequence data via **ifstream**(max: 10,000 edges), modeled it abstractly as undirected graph
- Implemented Dijkstra's Algorithm to find the shortest path and connected threshold given two patients

### SurfStore Cloud Storage Service based on Dropbox

*Mar. 2022*

- Initiated interfaces for file saving and indexing in server and gRPC clients, allowing multiple concurrency
- Synchronized files of newer versions from cloud to local client; updated new/modified local files to the server
- Handled conflicts following "whoever syncs first wins"; deleted files marked with "tombstone"(0 hash value)

### TritonHTTP(HTTP/1.1) Network Protocol Implementation in Golang

*Jan. 2022 - Feb. 2022*

- Formalized and validated requests; acquired file contents and wrote response with bufio
- Enabled end-to-end data transmission via TCP; processed pipelined requests; closed connection when required
- Validated good/bad http requests; generated statuscode and response headers accordingly; sent requested contents

## LEADERSHIP ACTIVITIES

- Head of News Center, College of Electrical Engineering, Zhejiang University (Oct. 2018 – Sep. 2019)
- High-Voltage Branch Venue Assistant, 2019 National Doctoral Forum of Electrical Engineering (Jun. 2019)
- Member, Pioneering and Study Instructing Center, Zhejiang University (Sep. 2017 – Jun. 2018)