

DUAN LI

Email: liduan2000@gmail.com

Mobile: 80380270

EDUCATION

National University of Singapore

Aug 2023 - Dec 2024

Master of Computing

- GPA: 4.7 / 5.0

Southeast University

Aug 2018 - Jun 2022

Bachelor of Automation (Intelligent Information Processing)

- GPA: 3.76 / 4.00 (88.66 / 100) (Top 5%)
- National patent: Dental veneer model generation and thickness measurement method based on oral scanning point Cloud

WORK EXPERIENCE

System Software Development Engineer

Jul 2022 - May 2023

Intel Asia Pacific research and development company Ltd.

- Constructed a Linux kernel space device management driver and a user space device simulator. Led the formulation of schemes, designed architecture, implemented modules, and conducted integration testing. Ensured the stable operation of the driver on the next-generation Server CPU (GNR).
- Optimized data parallel algorithms in Intel's high-performance GPU architecture. Proposed an effective enhancement scheme for the next-generation PVC GPU compiler, reducing the running time of the original parallel algorithm on PVC GPU by nearly ten times.

INTERNSHIP EXPERIENCE

Backend Development Engineer

Feb 2022 - May 2022

Tencent Technology

- Engaged in the development of the Cloud Microenterprise Open Platform and Voice Assistant, driving voice recognition, semantic analysis, and voice synthesis to ensure the provision of intelligent voice services to users.
- Oversaw responsibilities encompassing speech recognition, AI capability scheduling, speech synthesis ability distribution, skill allocation, and module optimization of skill abilities. Spearheaded the Blind Programmer Project and facilitated connections with pertinent company leaders.

Software Development Engineer

Jun 2021 - Aug 2021

Alibaba Group

- Engaged in the development of a lightweight JavaScript compilation engine and its performance optimization, taking responsibility for instruction bytecode and JIT compilation.
- Directed the development of the file clean-up module for online bypass repair, overseeing the processing of handheld local and platform-delivered files in real-time, aligning with dynamic business push data to achieve seamless hot repairs.

PROJECTS

Project Owner

Oct 2023 - Jan 2024

Tianjiang Food Delivery Platform

- Tech stack: Spring, Spring MVC, Spring Boot, Spring Task, Spring Cache, Mybatis, Redis, MySQL, JWT, Swagger, WebSocket, Vue, and WeChat Mini.
- The project is a customized software product specifically designed for catering enterprises such as restaurants and hotels. It comprises a system management platform and a mini-program application on the client side.

- Merchant Management Platform: Enables merchants to manage employees, orders, store status, packages, categories, and menu items. It also includes statistical and visualization features for various restaurant-related data.
- User-Side Mini-Program: Allows users to browse dishes online, add items to the shopping cart, place orders, make payments, and request order status updates.

Project Leader

Sep 2021 - Jun 2022

Segmentation Technology of Mandibular neural tube in CBCT

- Introduced an innovative algorithm grounded in 2D U-Net and 3D U-Net neural networks. Orchestrated scheme design, conducted research, and implemented deep learning algorithms, leading software integration development.
- Achieved a segmentation algorithm accuracy of 99.7% and a 3D model overlapping rate of 85%, surpassing traditional algorithms by over 10%. The software has been deployed and utilized at Nanjing Stomatological Hospital.

Project Leader

Aug 2020 - Mar 2021

CBCT image segmentation and 3D reconstruction

- Collaborated with Nanjing Stomatological Hospital for software for maxillary sinus segmentation and 3D reconstruction. Applied deep learning with neural networks such as Mask R-CNN, U-Net, and U-Net++ and algorithms including Marching Cube, Laplace to enhance precision and efficiency.
- Responsible for research and implementation of image segmentation neural networks and reconstruction algorithms. Accomplished an outstanding accuracy of 99.9% for the segmentation and an impressive 93% overlapping rate for 3D models, surpassing traditional algorithms by over 15%.

CERTIFICATIONS

- The second prize of National Computer Design Competition
- Special Prize of Jiangsu computer design competition
- Second prize of Southeast University computer design competition
- Third prize in Robocup competition
- Puxin Elite Scholarship

CORE COMPETENCIES

- Programming (Java, Python, C/C++, Golang, SQL)
- Linux (Linux Kernel, Driver Development)
- GPU (Architecture, Parallel computing)
- Big Data (Hadoop, Spark, Databases)
- AI (Machine Learning, Computer Vision)
- Trouble Shooting, Problem Solving and Communication