Jae Seong Lee

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EDUCATION

The University of Texas at Austin   Bachelor of Science, Computer Science   May 2019
Business Minor
Overall GPA: 3.44

PROJECTS

BarrelfishOS   Spring 2019
• Developed a capability based memory manager, implemented a page fault handler and converted from static heap allocation to dynamic heap allocation
• Designed and implemented loading and spawning processes and cores on multiple cores and message passing so that processes can communicate with each other intra-core and inter-core
• Built and demonstrated a shell for the operating system with auto complete function
• Constructed a device driver for the System Direct Memory Access that handles requests from processes to copy memory

Group Project Website - www.gitlab.com/qchay/IDB   Summer 2018
• Created a front-end server that runs React and a back-end server that runs Flask-SQLAlchemy and Flask-Restless on Amazon Web Services (AWS)
• Scraped data from a series of APIs and created our own API
• Set up Continuous Integration (CI) on GitLab that tests GUI using Selenium, JavaScript using Mocha, and our API using Postman

PintosOS   Spring 2018
• Expanded a simple Operating System to include priority scheduling, allowed argument passing on the stack, implemented system calls for user programs, added virtual memory, and converted the existing single-level file system into an multi-level indexed file system

EXPERIENCES

Android Mobile Application Development | Developer ID: Wanted Star   Summer 2017
• Learned to design and develop mobile Applications in Android Studio alone
• Can manipulate Firebase User Authentication

Graduate Research Web Developer - School of Geosciences   Fall 2016
• Improving the visual design of the website for the research team RioMAR
• Adding interactions such as global paleogeography and geologic calculations on the webpage

AWARDS

CodeRED Curiosity Hackathon - *Best VR Game*   Fall 2016
• Created a simple VR interaction game through Unity

SKILLS

• Proficient in C, Java, Python, HTML & CSS,
• Experience with Android Studio, Linux, Git, Docker, x86
• Fluent in Korean