Mingxuan(Mike) Cai

mikecai.me| mc6gb@virginia.edu | 215.914.5986 |

EDUCATION

UNIVERSITY OF VIRGINIA

BA in Computer Science and Mathematics
May 2021 | Charlottesville, VA
College of Arts & Science
CS Major GPA: 4.0 / 4.0
Cum. GPA: 3.81 / 4.0

LINKS

Facebook:// **mikecai09**
Github:// **mikecai09**
LinkedIn:// **mingxuan-cai-739008187**

COURSEWORK

UNDERGRADUATE

Program & Data Representation (C++)
Intro to Programming (Python)
Software Development Methods (Java)
From Data to Knowledge (R)
Multi-variable Calculus
Probability
Linear Algebra
Real Analysis

SKILLS

PROGRAMMING

- Java, Kotlin, Python, C++
- Android SDK, XML, HTML, CSS
- Agile methodology

LANGUAGE

English • Mandarin Chinese

INVOLVEMENTS

President of Gamma Sigma Tau Fraternity Inc.
May 2019 - Current

Treasurer of Multicultural Greek Council
November 2018 - Current

Member of CSSS Basketball Team
August 2017 - Current

RESEARCH

UNDERGRADUATE RESEARCH ASSISTANT

Under Professor Tian
August 2019 - Current | Charlottesville, Virginia

- Study temperature control for babies and incubators and implement different algorithms to detect the temperature anomaly in baby incubators.
- Detect security issue between mobile

EXPERIENCE

DROPBOX, INC

Software Engineer Intern
June 2020 - August 2020 | San Francisco, California

- Worked in Mobile Collaboration team.
- Developed a feature for file collection in Android, which includes both UI and core functionalities, using Kotlin and Java.

TECHWIN SEMICONDUCTOR CO., LTD

Software Engineer Intern
June 2019 – July 2019 | Shenzhen, China

- Gained experience in working with MFC to develop windows application.
- Aided a senior software engineer in maintaining MPTool, a software that is used to detect and format USB flash chip controller.
- Developed a bitmap generating feature that was used to visually identify defective memory blocks in flash memory chips and was added to the newest version of the software.

PROJECT

LOUS LIST SCHEDULER

A course-scheduling chrome extension
June 2019

- Chrome extension that allows UVA students create schedule from Lous List, a course information website.
- Used Chrome API to store and retrieve user data, JQuery and DOM to modify CSS, and Bootstrap to make the popup page.
- Released on Chrome web store.

PREDICTION OF WILDFIRES IN VIRGINIA

Project for Machine Learning for Virginia
Oct 2019 - December 2019

- Predict fire size in Virginia from multiple features
- Used SVM, Decision tree, Random forest, and Deep neural network

SURVEY OF POPULAR AI ALGORITHM IN TETRIS

A project in Artificial Intelligence course
Oct 2019 - December 2019

- Created Tetris AI agents through neural network and evolutionary algorithm, supervised learning, and reinforcement learning using Pytorch library.
- Coded in Java and designed the UI using Java Swing.