

Bogyung Kim

SOFTWARE ENGINEER

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Education

Duke University

BS IN COMPUTER SCIENCE, MINOR IN PSYCHOLOGY

Durham, NC

Expected May 2021

- GPA: 3.981/4.0; Dean's List all semesters
- Relevant Coursework:
Data Structures and Algorithms, Unity 3D and Interface Design, Virtual Museums, Intro to Database Systems, Foundations of Data Science, Intro to Computer Science, Matrices and Vector Spaces, Discrete Mathematics, Multi variable Calculus

Skills

Programming, C++; Swift; Python; Java; C; SQL; Flutter; Git

3D/Graphic/Web, Unity; ARKit; SpriteKit; Blender; OpenGL; HTML; CSS

Work Experience

Duke OIT

Durham, NC

SOFTWARE ENGINEER INTERN - FULL STACK (AR APPLICATION)

May 2019 - Present

- Sponsored by Microsoft, created 3D models using Blender and developed AR points of interest using Azure Spatial Anchors and GPS, drastically increasing the engagement and interactivity of app users
- Built a native ios AR experience for Duke Gardens visitors in Swift and objective-c using ARKit and SpriteKit
- Beta testing with Duke Gardens, guaranteed to be launched in the App Store by the end of the year, and expecting to have 300k+ downloads

Runner's App

Durham, NC

LEAD FULL STACK DEVELOPER

Aug 2019-Present

- One of the two developers building the company's main mobile application in native ios with Swift and GeoJSON
- Lead developer for making an algorithm that finds customized track for runners using Google Maps and its APIs including Elevation and Directions API
- Will include recommendation systems to provide personal customization and some pre-set routes as well

Duke Computer Science Department

Durham, NC

UNDERGRADUATE TEACHING ASSISTANT

Aug 2018 - May 2019

- TAed for Programming and Problem Solving and Foundations of Data Science
- Hold office hours, created test cases, led discussion session of 10+ students and graded exams

Projects

Duke Wilson Recreation Center App - AR based

Durham, NC

VISITOR APP WITH AR EXPERIENCE

Aug 2019-Sep 2019

- Team leader of 4 students, designed and implemented a native ios application with Swift and objective-c that allows users to explore the recreation center using AR markers
- Accepted to be launched in the Apple App Store and expecting to have 100k+ downloads

Reinterpreting Yikyak

Durham, NC

MOBILE APPLICATION

Sep 2019-Present

- Primary backend developer to create a location-based anonymous mobile chat application using Flutter and SQL
- Targeting university students with emphasis on reporting and incentive systems to avoid bullying and categorical classifications with hashtags to overcome some of the problems in its predecessor

Mini Games

Durham, NC

C++ CONSOLE GAME

May 2019-Aug 2019

- Built independent projects to learn C++
- Developed C++ console applications including maze game and Tetris

Activities

Student Organizations, Lead Mentor in Duke International House Orientation Peers; Devils Cross Reality; Duke Technology Scholars;