

Napakorn Junloy

Preferred: James Junloy

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EDUCATION

Virginia Tech

Bachelor of Science in Computer Science – GPA: 3.54/4.0

Blacksburg, VA

August 2019 – May 2023

EXPERIENCE

Undergraduate Teaching Assistant

August 2021 – December 2021

Virginia Tech

Blacksburg, VA

- Supported instructor in a class of 90 students in CS 1054, Introduction to Programming in Java
- Assisted students with the Java language and object-oriented programming concepts in class, during office hours, and on the class forum

Undergraduate Teaching Assistant

January 2022 – May 2022

Virginia Tech

Blacksburg, VA

- Supported instructor in a class of 120 students in CS 3714, Apple Mobile Software Development
- Held office hours to help students learn Swift and SwiftUI to develop iOS applications in the Xcode IDE, perform hands-on development of tutorial apps, and debug errors in the Apple ecosystem

PROJECTS

Solemates | Swift

- Developed a marketplace iOS application for users to contact other users to buy, sell, or trade sneakers
- Utilized The Sneaker Database, a REST API, to obtain shoe information and display new releases
- Implemented augmented reality with Apple's ARKit and RealityKit frameworks to allow users to view shoe models through their iPhone's camera
- Integrated Firebase Authentication for secure login and Cloud Firestore, a NoSQL database, to store each user's profile information
- Programmed an animated splash screen on startup and while waiting for database queries

Gobbler Grades | Swift

- Developed an iOS application that displays course data, such as grade distributions, for 85,000+ courses that were taught at Virginia Tech since 2012 using Institutional Data from Virginia Tech University DataCommons
- Stored all course information in Cloud Firestore database for efficient data retrieval and complex queries

INT-finite Calculator | Java

- Developed a program to perform large, complex calculations for integers that would exceed the maximum length of the Java primitive number types
- Optimized calculator by converting expressions from infix notation to postfix notation to allow operator precedence and parentheses to be ignored

Aim Trainer | C#

- Developed an aim trainer application in Unity game engine for users to improve their aim in first-person shooter video games

Personal Website | HTML, CSS, JavaScript

- Created a personal website, jamesjunloy.com, to showcase projects details and images

TECHNICAL SKILLS

Languages: Java, Swift, C, C#, JavaScript, HTML, CSS

Frameworks/Libraries: JUnit, SwiftUI, Core Data, NoSQL, jQuery, Bootstrap

Developer Tools: Visual Studio Code, Xcode, Eclipse, Unity, Git, Bash, Linux, GNU, Valgrind, Firebase, REST APIs

LEADERSHIP EXPERIENCE

Institute of Electrical and Electronics Engineers (IEEE) at Virginia Tech

May 2021 – Present

Executive Board – Head of Social Media & Webmaster

- Lead the Social Media Management committee in collaboration with the Electrical and Computer Engineering and Computer Science departments to advertise IEEE events that help students with professional development
- Managed and updated [IEEE at Virginia Tech website](https://www.ieee.org) with organization information and event photos