




SRIKAVIN RAMKUMAR

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PROJECTS

- **BookKeeper:** Library management system that placed first at the 2018 Florida FBLA conference
- **Quizza:** Mobile quiz game with a built-in editor, online multiplayer, and offline studying
- **Chest Randomizer:** Minecraft server plugin with 225,000+ installs
- **FactorySim:** Game written using LWJGL and OpenGL in Java
- **Glade:** Web server written in Java with an event-driven and modular design from scratch
- **epistle:** Chat server and client with a drop-and-play plugin system and permission support
- **Chess:** Chess game server written in Java using Glade

RESEARCH

- **A comparative study between deep Q-learning and traditional methods for playing games**
 - ★ Extended Essay in Computer Science for the IB Diploma Program
 - ★ Implemented the DQN algorithm based off *Playing Atari with Deep Reinforcement Learning*
- **Attacks on RSA Cryptography**
 - ★ Internal Assessment in HL Mathematics for the IB Diploma Program
 - ★ Explored the underlying mathematics behind RSA cryptosystems and possible weaknesses

TECHNICAL SKILLS

- **Languages:** Python, Kotlin, Java, Javascript, Typescript
- **Technologies:** React, Android, Node.js, Android Jetpack, JavaFX
- **Tools:** MongoDB, Jupyter Lab, git

HONORS AND AWARDS

- **NACTF 2019:** Competed individually and placed first at the high school level out of 100 teams.
- **FBLA Florida SLC 2019:** Received first place for *Quizza* in the Mobile App Development category.
- **picoCTF 2018:** Competed individually and placed 12th at the high school level out of 3400 teams.
- **FBLA Florida SLC 2018:** Received first place for *BookKeeper* in the Coding & Programming category.
- **FBLA Florida SLC 2017:** Received fourth place in the Computer Problem Solving category.
- **Mu Alpha Theta Florida States 2017:** Received fifth place in competitive programming.

EDUCATION

Carnegie Mellon University

Pre-College Advanced Placement/Early Admission

21-127E *Concepts of Mathematics*, 18-100E *Introduction to Electrical and Computer Engineering*

Pittsburgh, PA

Summer 2019

QPA: 3.55/4.0

Robinson Senior High School

International Baccalaureate Diploma

Math HL, Physics HL, English HL, Chemistry SL

Tampa, FL

Aug. 2016 – May 2020

GPA: 3.953/4.0