Tommy Vadakumchery

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Education

Illinois Institute of Technology   August 2019 - May 2023
Bachelor of Science, Computer Science   *Chicago, IL*
- GPA: 4.00 / 4.00
- Coursework: Data Structures, Discrete Structures, Algorithms, Computer Organization, Systems Programming, Operating Systems, Database Organization, Data Mining, Intro to Artificial Intelligence
- Extracurriculars: Camras Scholars Program, Association of Computing Machinery

Experience

Roblox   June 2020 - August 2020
Software Engineering Intern   *San Mateo, CA*
- Implemented a framework in the Roblox Studio application to increase usage rates of new features by visually calling them out in the user interface
- Developed using C++ with the Qt application framework

Illinois Institute of Technology   January 2020 - May 2020
Teaching Assistant   *Chicago, IL*
- Oversaw a lab section for a Java object-oriented programming class
- Graded lab assignments and assisted students during office hours

Medical Imaging Research Center @ IIT   August 2017 - May 2018
Computer Vision Research Assistant   *Chicago, IL*
- Participated in a computer vision project under Dr. Miles Wernick focused on pedestrian detection
- Implemented background subtraction and optical flow using Python with OpenCV

Projects

RTS Game   May 2020
- Browser-based online multiplayer RTS game written primarily in TypeScript
- Frontend written using React which renders the game using SVG graphics
- Backend written with Node which interacts with the frontend using socket.io, a package for WebSocket communication
- Demonstration available at tovaio.github.io/riskystrats

Awards

- *Best of Show* at Dare Mighty Things Hackathon   October 2019
- *Best MongoDB Hack* at VandyHacks   November 2019

Skills

- Languages: C++, TypeScript, JavaScript, Python, Java, C#, Lua
- Frameworks: Node, Express, React, Qt, Flask, numpy/pandas
- Other: Git, LaTeX