Sean Kelly

github.com/se-ke | linkedin.com/in/seankellycs/ | se-ke.github.io | seankellyCS@outlook.com

EDUCATION

Northeastern University

Boston, MA

Khoury College of Computer Sciences

Sep 2019 – Present

Candidate for Bachelor of Science in Computer Science, Minor in Information Ethics

Expected May 2023

- GPA and Honors: 4.00/4.00 and Dean's List
- Relevant Courses: Object-Oriented Design, Algorithms, Computer Systems, Networks and Distributed Systems, Foundations of Cybersecurity, Discrete Structures, Law and Ethics of Digital Tech

TECHNICAL SKILLS

Languages: Java, C++, TypeScript, Python, C#, JavaScript, C, HTML, CSS, SQL **Frameworks**: Express, Node.js, Bootstrap, Jest, Google Test, Django, JUnit **Technologies**: Git, MongoDB, OpenGL, Postman, VirtualBox, LaTeX

EXPERIENCE

Social Media Startup

Remote

Backend Engineer

Jun 2021 – Present

- Designed a fully-fledged backend with support for personalized home feeds, trending posts, an explore feed, and more using **Node.js**, **Express**, **MongoDB**, **TypeScript**, and **JavaScript**.
- Collaborated with pre-seed investors, UI/UX designer, and frontend developers to build the infrastructure necessary to expand the platform into a social media site and e-commerce platform hybrid.

Ansys

Remote

Software Engineering Co-op – Graphics and Post-Processing

Jan 2021 - Aug 2021

- Created a framework in C++ to assess the speed and accuracy of a new **OpenGL** shader-based scene graph rendering engine used throughout the company's most popular product, Ansys Mechanical.
- Led development on a project to embed 3D simulation results in exportable reports, which was ultimately described as the "best new feature in several months" by the Mechanical VP of Product.
- Developed client-facing automation APIs using C#, Python, and JavaScript.

Angel's Scholar Award Program

Boston, MA

Object-Oriented Design Tutor

Oct 2020 – Dec 2020

Northeastern University

Boston, MA

Discrete Structures Teaching Assistant

Sep 2020 – Dec 2020

• Led 3 lab periods per week, each with 35 students, to review lecture concepts such as searching and sorting.

Accenture

Jun 2020 – Aug 2020

Technology Research Analyst

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- Produced original research on data interoperability and digital twins for the annual Technology Vision report.
- Investigated e-commerce live streaming in Western markets as a tool for connecting with Gen Z shoppers.

PROJECTS

Personal Website May 2021

- Designed personal portfolio website using HTML, CSS, JavaScript, and Bootstrap.
- See more at: se-ke.github.io.

AI Minesweepers

Feb 2019 – Dec 2019

- Created an agent-based simulation in **Java** that combines a custom-built feedforward neural network with a genetic algorithm to train agents to efficiently pick up randomly generated mines while avoiding asteroids.
- See more at: github.com/se-ke/Minesweepers.

Spotted

Sep 2018

- Developed a mobile app on **Android** that locates stranded flood victims through drone-based computer vision.
- Earned third place at PennApps, the world's largest college hackathon with 200+ teams and 700+ contestants.
- See more at: devpost.com/software/tidesafe.

INTERESTS

• Hiking, Traveling, Piano, French, Reading, Running