Software Engineer B.A in Computer Science, New York University



Personal information has been redacted for privacy. Reach out for my most recent, complete resume.

#### **Summary**

Full-stack software engineer experienced in web applications, data visualization, proficient in mathematical concepts, and skilled in developing image processing algorithms. Demonstrated ability to lead pilot projects to successful production stage.

### **Experience**

2021 - Present

Seoul, Republic of Korea

# **Treatment Planning System 3D Reconstruction**

C++, C#, MFC

Project: converted 2D contour data as 3D objects in spatial rendering Achievements: reconstructed contours with complex topologies into mesh entities for optimized medical data visualization.

- Triangular decomposition of surfaces and contiguous planes
- Rendering mesh objects onto 3D medical images
- \* Real-time representation of planar intersections within 3D objects

## **Web Pictures Archiving and Communications Viewer**

JavaScript, React, Node

Project: web-based medical image viewer tailored to radiation oncology departmental workflow

Achievements:

- Presentation at American Society for Therapeutic Radiology and Oncology 2023 Annual Exhibition
- Took on a comprehensive role in: project development, application architecture planning, full-stack software developing, and source code maintenance
- ❖ Application of WebGL, 2D and 3D visual representations on the web
- Implemented performance enhancement tailored to power network environments
- ❖ Intuitive interactive interface for both desktop and mobile platforms

2018 - 2019

New York, New York, U.S.A.

Role: Plan, direct, and coordinate free public educational programs Project: Coding 101 for beginners, Art History in New York City

2018 - 2018

New York, New York, U.S.A.

Solidity, Java, Android Studio

Project: Android search application based on Ethereum smart contracts.

# **Programming Languages & Frameworks**

Java, Python, JavaScript, C++, C, Spring, ReactJS, NodeJS, VueJS, MFC, OpenMP

#### Language

English (fluent), Korean (native), Mandarin (HSK 6 proficiency), Italian (beginner)

#### **Awards & Other Interests**

Founders Honors Scholar, New York University Pottery