Kevin Chen

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EDUCATION

Yale University

8.2019 - 5.2023

B.S. Computer Science (GPA 4.0/4.0)

→ VP of Engineering of UXSociety at Yale, Board Member of Yale Computer Society (y/cs)

Relevant Coursework

→ Algorithms, Data Structures, Systems Programming & Computer Organization, Advanced Topics in Computer Graphics, Discrete Mathematics, Linear Algebra & Matrix Theory

EXPERIENCE

Peabody Museum of Natural History

7.2020 - Present

Project Lead Developer (GitHub)

- → Led the development of the COPIS3D client, a native desktop application which controls a multicamera photogrammetric 3D reconstruction system, using Python, wxPython, and PyOpenGL.
- → Improved rendering performance by migrating from fixed function to modern OpenGL using GLSL shaders and instanced rendering. Utilized the pub/sub model, OOP, and MVC design pattern.
- → Improved usability by designing and implementing features such as path generation, orientation controls, and contextual property panel. Overhauled general interface and input controls.

6.2020 - 7.2020

Software Developer Intern

- → Developed and improved the viewport for a photogrammetry application using **Python & OpenGL**.
- → Familiarized with CAD software by researching FOSS such as PrusaSlicer, Slic3r, and PrintRun.
- → Practiced Agile and Scrum in 1-2 week sprints in a team of 3 developers. Learned C++.

Source **Development Hub**

6.2020 - Present

Data and Engineering Intern

- → Worked with a New Haven-based social enterprise to develop a data aggregation platform and a state database of affordable housing for the Connecticut Department of Housing.
- → Developed and automated a pipeline which extracted and geocoded 10,000+ housing program and subsidy records from unstructured datasets using Python into an SQL database.

Yale Undergrad Admissions

2.2020 - 5.2020

STEM Likely Representative

- → Introduced exceptional STEM admits to life and resources at Yale.
- → Provided mentorship to incoming STEM likely students, 150 out of 30,000+ applicants.

NIST Information Technology Lab

6.2018 - 4.2019

VR Research Intern

- → Developed an accessible VR gallery site to display 180+ gITF surfaces from the NIST DLMF by using Javascript, A-Frame & three.js frameworks, and Oculus Rift, HTC Vive, Google Cardboard systems.
- → Awarded the 2018 Outstanding Poster Presentation award. Work presented at SIGGRAPH 2018 BOF session "Immersive Visualisation for Research, Science and Art."

PROJECTS

Bulletin VR

WebVR + speech

- → Tackled social anxiety by developing an anonymous WebVR message board site using JavaScript, A-Frame web framework, and Web Speech API. Designed logo and assets. (GitHub)
- → Won the Best Gaming/VR Hack at YHack 2019, out of 147 submissions and 400+ participants.

Sign In App Android + data

- → Developed Android app to replace school's manual sign-in system using Android Studio & ADB.
- → Processed, verified, presented schedule data of 1,000+ students using Java & Apache HTTPClient.

Robotics (FTC)

President & Captain

- → Secured \$6,400+ via MSDE grant, taught **STEM outreach programs** for underrepresented students.
- → Led team through **engineering design process**, designed and tested a nationally-competing robot.

SKILLS

Languages **Technologies**

C++, C, Python, Java, JavaScript, Scheme, HTML, CSS

UNIX, Git, OpenGL, GLSL, wxWidgets, Android Studio, LaTeX, Illustrator, InDesign, Fusion 360