## Kevin Chen

kevinnchen com

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github.com/k3vnchen & in/kevinnchen

#### **EDUCATION**

#### Yale University

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

08.2019 - 05.2023

VP of Engineering of UXSociety at Yale, Design Chair of Yale Computer Society

**Relevant Coursework:** Algorithms, Data Structures, Object-Oriented Programming, Discrete Mathematics, Linear Algebra and Matrix Theory, Systems Programming, Operating Systems

#### **EXPERIENCE**

### Peabody Museum of Natural History 07.2020 - Present

#### Project Lead Developer (copis3d.org)

- → Developed and maintained the COPIS3d client, a desktop app which controls a multi-camera photogrammetric 3D reconstruction system. Worked with Python, wxPython and PyOpenGL.
- → Initiated and led the migration from fixed-function OpenGL to the modern OpenGL core profile.
- → Developed camera path generator, overhauled viewport controls, navigation, and rendering.
- → Evaluated project plans and direction with the museum's Head of Biodiversity Informatics.

#### cont.

#### Software Developer Intern

06.2020 - 07.2020

- → Developed 3D visualizer for a multi-camera five-axis gantry. Used Python and learned OpenGL.
- → Identified CAD software paradigms, and examined source code of PrusaSlicer and Slic3r.
- → Practiced Agile and Scrum in 1-2 week sprints in a team of 3 developers. Learned C++.

#### Source Development Hub

#### Data and Engineering Intern

06.2020 - Present

- → 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 for extracting and geocoding 7,000+ housing program and subsidy records from unstructured datasets using Python into an SQL database.
- → Pitched and established data processing methodologies to executives and data team researchers.

#### NIST ITL

#### **VR Research Intern**

06.2018 - 04.2019

- → Developed WebVR app to visualize 180+ 3D models in the NIST Digital Library of Mathematical Functions using A-Frame & three.js frameworks. Used Oculus Rift and HTC Vive VR systems.
- → Awarded the 2018 Outstanding Poster Presentation award. Youngest ever intern in mentor's lab.
- → Work presented at SIGGRAPH 2018 talk "Immersive Visualisation for Research, Science and Art".

#### NIST ITL

#### Software Intern

01.2016 - 06.2017

- → Developed Python scripts to translate 1,300+ formulae from Mathematica to semantic LaTeX.
- → Co-authored "Semantic Preserving Bijective Mappings of Mathematical Formulae between Word Processors and Computer Algebra Systems," published in the proceedings of CICM 2017.

#### **PROJECTS**

## Bulletin VR

#### **Developer and Designer** (devpost.com/software/bulletin-fq1kaz)

10.2019

- → Developed VR bulletin board website to share anonymous messages and tackle social anxiety.
- → Won the Best Gaming/VR Hack at YHack 2019, out of 147 submissions and 400+ participants.
- → Worked with A-Frame WebVR and Web Speech API. Designed logo and all promotional assets.

#### **FTC Robotics**

#### President and Senior Captain

06.2017 - 06.2019

- → Led team through engineering design process. Designed and tested a nationally-competing robot.
- → Awarded MSDE grant of \$6,411 to fund STEM outreach programs for disadvantaged K-12 students.

#### Digital Sign-In

#### Lead Developer

12.2016 - 06.2017

- → Developed Android app to digitize student sign-in and staff email system for high school library.
- → Processed, verified, and presented schedule data of 1,000+ students. Used Java, ADB, and Git.

#### SKILLS

# Languages

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

Software UNIX, Git, OpenGL, wxWidgets, Visual Studio, LaTeX, Fusion 360, Illustrator, InDesign