Kevin N. Chen

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github.com/k3vnchen / k3vnchen.github.io

Interested in building friendly software, developing VR/XR, and researching HCI.
Currently dabbling in graphic/UX design and typography.

EDUCATION

Yale University, Computer Science / ***GPA 4.0 & Graduating 2023*** — New Haven, CT

Yale Computer Society (Y/CS), Yale Developer Student Club, Y-IEEE, Yale User Experience Society — 8/2019 - Present

COURSES Discrete Mathematics (MATH 244), Data Structures and Programming Techniques (CPSC 223)
PLANNED Algorithms (CPSC 365), Linear Algebra and Matrix Theory (MATH 225), Visual Thinking (ART 111)

EXPERIENCE

NIST Information Technology Laboratory (ITL) Head Mounted Display Laboratory

Research Intern — 6/2018 - 4/2019

- Developed a JS/HTML WebVR application using A-Frame & three.js frameworks to visualize over 180 3D surfaces in the NIST Digital Library of Mathematical Functions (DLMF) repository (*dlmf.nist.gov*)
- Intensively used the Oculus Rift, Oculus Go, HTC Vive, and Google Cardboard VR systems
- Youngest ever intern in mentor's lab, received the 2018 Outstanding Poster Presentation award
- Work presented at SIGGRAPH 2018: "Immersive Visualisation for Research, Science and Art"

NIST ITL Applied and Computational Mathematics Division (ACMD)

Research Intern — 1/2016 - 6/2017

- Developed a Python program to translate from the Mathematica eCF database to semantic LaTeX with custom macros, part of the larger NIST DRMF Seeding project (*github.com/DRMF*)
- Wrote over a thousand lines of code and over a dozen unit tests for 100% code coverage
- Collaborated with researchers and developers worldwide, intensively used GitHub and Git command line
- Co-authored the paper *"Semantic Preserving Bijective Mappings of Mathematical Formulae between Word Processors and Computer Algebra Systems,"* Published in the Proceedings of the 10th Conference on Intelligent Computer Mathematics, Edinburgh, Scotland, July 2017

PROJECTS

CourseTable Development Team @ Y/CS / ***coursetable.com & github.com/coursetable***

Software Developer, Database/Frontend — 9/2019 - Present

- Part of an 8 person dev team to maintain CourseTable, a database of over 4000 Yale College and Yale graduate school courses with an interface for course selection, scheduling, and course ratings
- Developed in Python, Javascript, PHP, CSS, and Docker to maintain and add features to CourseTable based on student feedback, extensively use Git version control, also working to develop a mobile app

Bulletin VR @ YHack 2019 / ***devpost.com/software/bulletin-fq1kaz***

Software Developer, VR/AR — 10/2019 - 11/2019

- Developed Bulletin VR, a WebVR bulletin board for posting anonymous messages to tackle social anxiety
- Made with A-Frame JS/HTML framework, HTML Speech Recognition, and Python Flask backend
- Won the overall Best Gaming/VR Hack at YHack 2019

FIRST Tech Challenge Team #9450

Senior Captain — 6/2017 - 6/2019

- Led team through engineering design process to design, develop, and test a complex robot from scratch
- Scheduled meetings, managed budget/expenses, contacted sponsors, designed promotional material
- Co-wrote a grant proposal, awarded the MSDE grant of $6,411 to fund STEM outreach programs
- Won various local awards & advanced to compete in the 2017-18 FIRST Championship in Detroit, MI

SourceAmerica Design Challenge

Product Designer — 9/2017 - 3/2018

- Worked with NPO Chimes, Inc. to design hot glue packaging device for their employees with disabilities
- Measured via extensive testing vastly improved time and accuracy rates when using our device
- Received Honorable Mention award for the impact of our product (the Glue Helper) in the community

SKILLS

LANGUAGES C/C++, Python, JavaScript, Java, Racket, HTML/CSS
TOOLS UNIX/Linux, Git, Android Studio, LaTeX, Fusion 360, Adobe Illustrator, InDesign, XD