

# Kevin N. Chen

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Interested in building friendly software, developing VR/AR/XR, and researching HCI.

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[github.com/k3vnchen](https://github.com/k3vnchen) / [k3vnchen.github.io](https://k3vnchen.github.io)

## EDUCATION

### Yale University 2023, Computer Science

Yale Computer Society, Yale Developer Student Club, Y-IEEE, Yale User Experience Society

New Haven, CT

- COURSES Introduction to Computer Science (CPSC 201), Data Structures and Programming Techniques (CPSC 223), Discrete Mathematics (MATH 244), Vector Calculus (High school)
- PLANNED Parallel Programming Techniques (CPSC 424), Linear Algebra and Matrix Theory (MATH 225)

## EXPERIENCE

### NIST Information Technology Laboratory (ITL) Head Mounted Display Laboratory

Research Intern

6/2018 - 4/2019

- Developed a WebVR application to visualize over 180 3D mathematical surfaces in the NIST Digital Library of Mathematical Functions (DLMF) repository ([dlmf.nist.gov](https://dlmf.nist.gov))
- Intensively used the A-Frame and THREE.js JavaScript frameworks, became familiar with Oculus Rift, Oculus Go, HTC Vive, and Google Cardboard VR systems
- Received the 2018 Outstanding SHIP Poster Presentation Award
- Work presented at SIGGRAPH 2018: "Immersive Visualisation for Research, Science and Art" ([immersive-visualisation-bof.org](https://immersive-visualisation-bof.org))

### NIST ITL Applied and Computational Mathematics Division (ACMD)

Research Intern

1/2016 - 6/2017

- Developed a Python program to perform the translation from the Mathematica eCF Encoding Continued Fraction database to Semantic LaTeX, part of the larger NIST DRMF Seeding project ([github.com/DRMF](https://github.com/DRMF))
- Created unit tests for 100% code coverage, met with researchers to discuss appropriate algorithms
- 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 / [coursetable.com](https://coursetable.com) & [github.com/coursetable](https://github.com/coursetable)

Yale Computer Society (Y/CS)

9/2019 - Present

- Part of an 8 person dev team to maintain the CourseTable, a database of over 4000 Yale College and Yale graduate school courses with an interface for course selection, scheduling, and course ratings
- Develop 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 / [devpost.com/software/bulletin-fq1kaz](https://devpost.com/software/bulletin-fq1kaz) & [github.com/k3vnchen/bulletin-webvr](https://github.com/k3vnchen/bulletin-webvr)

YHack 2019

10/2019 - 11/2019

- Used the A-Frame WebVR JavaScript framework, HTML Speech Recognition API, Python backend, and Flask to develop an online VR bulletin board for posting anonymous messages to tackle social anxiety
- Initially developed during YHack 2019, and won the overall Best Gaming/VR Hack

### FIRST Tech Challenge Team #9450 / *Poolesville High School*

Senior Captain, President of STEM Community Outreach Programs

6/2017 - 6/2019

- Led a student-run team through the engineering process to create a complex electrical robot from scratch
- Co-wrote a grant proposal, awarded the MSDE grant of \$6,411 to fund community outreach programs
- Advanced to compete in the 2017-18 FIRST World Championship in Detroit, Michigan

### Media Center Sign-In System / *Poolesville High School*

Lead developer

12/2016 - 6/2017

- Developed Android application which replaced the pen-and-paper sign-in and book checkout system
- Used Android Studio and Java, processed schedule data of over 1,000 students in my high school
- Collaborated with staff and administration to determine the best front-end design and navigation methods

## SKILLS

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