

David Chen

3639 Haven Ave Unit C319
Menlo Park, CA. 94025
(US Citizen)

Updated: Mar 11, 2025
(978) 866-2118
real17chend@gmail.com

EDUCATION

Carnegie Mellon University: School of Computer Science, Pittsburgh, PA.

Incoming

- MS in Machine Learning.
- Research Advisor: **Prof. Max Simchowitz**

Stanford University: Center for Global & Online Education, Stanford, CA.

2022 - 2025

- Part-time: AI Graduate Certificate Path. GPA: 4.3/4.3

Carnegie Mellon University: School of Computer Science, Pittsburgh, PA.

2017 - 2021

- BS in CS, Minor in Math. GPA: 3.95/4.0

INDUSTRY EXPERIENCE

Meta, Menlo Park, CA. - *SWE*

2021 - Present

- Product software engineer for FB Notifications and FB Feed Experience Infra.
- Drove multiple large-scale projects resulting in major engagement increases for Facebook notifications, birthdays, widgets, and comments.
- Went above and beyond in researching, implementing, documenting, and presenting a solution for a complex Facebook bug resulting in an additional **3 million daily comments**.
- Collaborated with data scientists and conducted independent data analysis for **hundreds** of experiments in order to verify impact and influence direction.
- Led Java to Kotlin conversion efforts across all Android engineers in the notifications org, reaching **100%** Kotlin goal **1 year ahead of schedule**.
- Mentored multiple teammates and managed an intern.

Facebook (AR/VR), Menlo Park, CA. - *SWE Intern*

2020 Summer

GoDaddy, Kirkland, WA. - *SDE Intern*

2019 Summer

Akamai Technologies, Cambridge, MA. - *SDET Intern*

2018 Summer

EXCERPT OF RELEVANT PROJECTS

Stanford: CS234 Reinforcement Learning Final Project

2024 Spring

- Project mentor: **Prof. Emma Brunskill**
- Discovered and evaluated flaws in existing Decision Transformer research relating to the “trajectory stitching” issue.
- Extended research on the Waypoint Transformer approach, with potential improvements on benchmarks and better understanding of the importance of waypoint location.

Stanford: CS230 Deep Learning Final Project

2022 Spring

- Extended research on satellite image machine learning (SIML) through multi-task learning on ResNet models.
- Extended application of the model to inference of self-storage facility prices.

CMU: 15-688 Practical Data Science (Master's Level) Final Project

2019 Fall

- Explored subreddit classification from post content, performed additional analysis through clustering techniques.

HACKATHON PROJECTS

CMU TartanHacks: *s t r e t c h e d*

2019 Spring

- **Grand Finalist** for CMU TartanHacks.
- Cooperative, 3D puzzle game with an environment stretching as the main mechanic.

GoDaddy: ReSocial

2019 Summer

- **Customer Innovation category winner** for GoDaddy's Intern week hackathon.
- Website dashboard for businesses to monitor online reviews, built with React.

RESEARCH EXPERIENCE

Carnegie Mellon University: School of Computer Science, Pittsburgh, PA. - *Student* Incoming

- Independent Study:
 - Supervisor: **Prof. Max Simchowitz**
 - Summer preparation:
 - Reproducing and extending recent research related to **Diffusion Policy** **Policy Optimization** and **Diffusion Forcing**.

Carnegie Mellon University: School of Computer Science, Pittsburgh, PA. - *Student* 2018 - 2020

- Counterspace Games - Research Producer (2019-2020)
 - Supervisor: **Erica Cruz (PhD)**
 - Coordinated team of undergraduates in development of game prototypes.
 - Developed multiple prototypes using Unity game engine.
 - Conducted interviews, organized meetings, organized prototyping sessions.
- Research in Partitioning-based approaches for Maximum Satisfiability (2018)
 - Supervisor: **Dr. Ruben Martins**
 - Devised and implemented preprocessing techniques for MaxSAT solvers and analyzed impact on performance for competition benchmarks.

COMPUTER & PROGRAMMING SKILLS

- Proficient in **Python, Java, Kotlin**, JavaScript, C, C++, SQL, LaTeX, Typst, etc.
- Familiar with PyTorch, Android, React, and many other frameworks.
- **Game development with Unity Engine.**

RELEVANT CS & MATH COURSEWORK

- | | |
|--|---|
| <ul style="list-style-type: none">• 15-441: Computer Networks• 15-462: Computer Graphics• 10-315: Machine Learning• 10-403: Deep Reinforcement Learning and Control• 15-688: Practical Data Science• 21-261: Introduction to Ordinary Differential Equations• 21-341: Linear Algebra | <ul style="list-style-type: none">• 21-355: Principles of Real Analysis I• 21-373: Algebraic Structures• 15-317: Constructive Logic• CS230: Deep Learning• CS234: Reinforcement Learning• STATS200: Statistical Inference• STATS217: Introduction to Stochastic Processes I• <i>Many more courses I could not fit here</i> |
|--|---|

OTHERS/HOBBIES

- Personal website: davidjgchen.github.io
- Self-studying and reviewing math and theory:
 - Current interests: real analysis, probability theory, multi-armed bandits.
- Successfully quit League of Legends.
- Cocktail and coffee enjoyer.
- Typst (alternative to LaTeX) enthusiast!