

# RAYMOND CHEN

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## EDUCATION

Duke University, Durham, NC

May 2022

- **Majors:** B.S. Computer Science, Neuroscience, **GPA:** 4.00/4.00
- **Relevant Courses:** Data Structures & Algorithms, Operating Systems, Computer Architecture, Discrete Math, Probability, Statistical Inference, Linear Algebra, Multivariable Calculus

Pingry School, Basking Ridge, NJ

June 2018

- **Honors:** Cum Laude Society, Rensselaer Mathematics and Science Award, AP National Scholar

Columbia University Science Honors Program, New York City, NY

Sept. 2017 – June 2018

- **Courses:** Computational Neuroscience, Stem Cell Biology and its Applications

## SKILLS

**Skills:** Java, Python, C, Assembly, HTML, CSS, JavaScript, MATLAB, Git

**Interests:** Software Engineering, Data Science, Fintech, Biotech, Medicine, Environment, Photography, Badminton

## EXPERIENCE

Pearson Lab, *Huang Research Intern*, Duke University

May 2019 – July 2019

- Built a real-time calcium imaging analysis platform using Python and the open source CalmAn package
- Initialized and completed platform's integration with Windows OS using Windows Subsystem for Linux
- Analyzed and improved Numba and Apache Arrow performance in platform using the SciPy stack

Gavornik Lab, *RISE Research Intern*, Boston University

July 2017 – Aug. 2017

- Proposed and executed a project analyzing spatiotemporal sequence learning in mouse primary visual cortex using MATLAB, Electrophysiology, and Immunohistochemistry
- Programmed a frame-by-frame video analyzer using MATLAB to track mouse motion inside a box

## PROJECTS

BadRank, [github.com/raymondhechen/badrank](https://github.com/raymondhechen/badrank)

Sept. 2019

- Developed a full-stack automated match recording and ELO ranking system for Duke Club Badminton using Python, Flask, SQLAlchemy, SQLite, and ReactJS

Personal Website, [raymondhechen.com](https://raymondhechen.com)

June 2019

- Developed a personal portfolio using HTML, CSS, JavaScript, and deployed using GitHub environments

## LEADERSHIP

Huang Fellows Program, Duke University Science & Society

Mar. 2019 – May 2022

- Selected out of 100 students to learn how to understand science in the context of and in service to society, along with how to integrate ethics, policy, and social implications into my scientific research

Duke Club Badminton, *Social Chair*, Duke University

Feb. 2019 – May 2020

- Responsible for promoting inclusion and interaction between members by overseeing events and marketing

Independent Research Team, *Project Team Leader*, Pingry School

Oct. 2016 – June 2018

- Proposed, obtained funding for, and led a 3-member team to study the effect of anti-apoptotic protein, Bcl2L12, on melanoma using a zebrafish model with the assistance of Harvard University Professor Leonard Zon