RAYMOND CHEN

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EDUCATION

Duke University, Durham, NC   **May 2022**
- **Majors:** B.S. Computer Science, Statistics, **GPA:** 3.9
- **Courses:** Data Structures, Algorithms, Databases, Operating Systems, Computer Architecture, Discrete Math, Probability, Linear Algebra, Multivariable Calculus, Regression Analysis

SKILLS

Programming: Python, Java, C, C++, Assembly   **Data**: R, NumPy, Pandas, Matplotlib, MATLAB, SQL

Web Development: HTML, CSS, JavaScript, React, Flask   **Platforms**: Linux, macOS, Windows, Docker, AWS, Azure

EXPERIENCE

HackDuke, *Planning Committee Developer*, Duke University   **Oct. 2019 – Present**
- Developed web applications ad hoc for Duke University's premier hackathon with over 700 participants, using ReactJS, React-Static, Emotion, and Netlify
- Resolved technical issues with Slack bots, HackDuke's mobile app, and Gavel project judging system

Pearson Lab, *Software Engineering 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
- Programmed a frame-by-frame video analyzer using MATLAB to track mouse motion

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

PROJECTS

ShuttleRank, github.com/raymondhechen/shuttlerank   **Sept. 2019**
- Developed a full-stack match recording and ELO ranking web application and REST API using Python, Flask, SQLAlchemy, PostgreSQL, SQLite, React, and Heroku
- Utilized by Duke Club Badminton to support tournament tryout processes for ~30 players

Personal Portfolio, raymondchen.me   **June 2019**
- Developed a personal portfolio using ReactJS, and deployed using GitHub environments

OTHERS

Huang Fellowship, *Fellow*, Duke Science & Society   **Mar. 2019 – Present**
- Selected out of ~150 students to learn how to understand science in the context of and in service to society by integrating ethics, policy, and social implications into scientific research

Duke Club Badminton, *Social Chair*, Duke University   **Feb. 2019 – Present**
- Responsible for promoting inclusion and interaction between members by overseeing events and marketing
- Active national competitor, represented USA Badminton four times internationally; 2014 US Junior Champion