Luna Chen

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EDUCATION

University of Pennsylvania — Philadelphia, PA

Master, Bachelor of Applied Science in Computer Science and Cognitive Science — *Aug. 2022 – May 2027*

- **Cumulative GPA**: 3.7/4.00

EXPERIENCE

Capital One — McLean, VA

Software Engineering Intern – Backend — *May 2025 – Aug 2025*

- **Built serverless Google-Workspace API layer**: Created a Node.js service on AWS Lambda + API Gateway to expose user, group, and device actions from Google Admin Console in Capital One's internal portal, reducing manual admin work by 70%.
- **Integrated Google APIs at scale**: Connected Admin SDK, Calendar, and Gmail endpoints; designed REST schemas now handling >2 k requests/day.
- **Role-based Client Side Rendering**: Built a responsive, client-side-rendered web portal that validates admin authentication tokens to securely deliver role-based content and functionality.

The Machine Vision Lab — University of Pennsylvania

Research Assistant — *May 2024 – August 2024*

- **Eyetracking Data Collection**: Led and established eye gaze data collection using Aria glasses, scaling participant engagement from 0 to 40, enabled machines to mimic human visual efficiency, enhancing machine vision processes.
- **Python Script Development**: Automated VRS data extraction through Python scripts, reducing processing time by over 30%, accelerated workflow for gaze analysis.
- **Eye Gaze Models**: Increased prediction accuracy by refining config files for eye gaze models, directly benefiting applications in human-computer interaction research.

SEAS Department — University of Pennsylvania

Head Teaching Assistant, Computer and Information Sciences — *Aug. 2023 – Dec 2024*

- **Leadership and Mentorship**: Led a team of 30+ TA's and conducted weekly recitations for 100+ students, simplifying complex topics in graph theory, discrete probability, and induction.
- **Standardized Grading**: Developed 30+ problem grading rubrics, ensuring consistency, fairness in assessments.

EXTRACURRICULAR ACTIVITIES

- **Dev4Good - Product Manager**: Led a team of 10 developers to create a custom API server and Student Web Registration page for AmericaSCORES, and developed a website framework for Centro Community Partners using Firebase and React Native.
- **Every Now & Then - Co-founder**: Co-founded and manage a popup dining experience, achieving $3000+ in revenue and 200+ guests. Curated culturally themed menus and handled logistical coordination.
- **Penn SPARK - Project Lead**: Advanced full-stack web/mobile development skills (Firebase, React, Node.js, MySQL, HTML, CSS) through weekly lessons and projects. Organized social events to foster community of 50+ students.
- **Penn Women's Club Volleyball - Secretary**: Managed club finances, organized fundraisers earning $400+, coordinated practices and tournaments, improving team operations and engagement.

SKILLS

- **Relevant Courses**: Programming Languages and Techniques II (CIS1210), Artificial Intelligence (CIS5210), Interactive Computer Graphics (CIS5600), Machine Intelligence (CIS5190)
- **Technical Skills**: Java, OCaml, C, C++, JavaScript, HTML, CSS, Python, SQL, React, Node.js, React Native, Firebase, Database Management, Excel
- **Coding Projects**: Roomies - Mobile App Deployed, Testflight, Mini Minecraft - C++, OpenGL, News Classification ML Models, Roomies - Web App, Front-end, SpotBnb - Databases and Google Maps API Web App
- **Languages**: English (Native), Mandarin (Native), Spanish (Proficient)
- **Interests**: Volleyball, Cooking, Crocheting, Chinese Literature