Timmy Li

352-871-1711 | timmyjunchen@gmail.com | linkedin.com/in/timmyjunchen | github.com/timmyjunchen

EDUCATION

Cornell University   Ithaca, NY
Bachelor of Science in Computer Science · GPA: 3.86   *Aug 2022 – May 2026*

EXPERIENCE

Software Development Engineer Intern   May 2024 – Aug 2024
Amazon Web Services (AWS)   *Seattle, WA*
- Collaborated with cross-disciplinary team to develop Infrastructure as Code debugging tool for on-call engineers.
- Designed and implemented an API Lambda function to enable efficient retrieval from a cross-account DynamoDB table through role assumption, integrating with prior infrastructure to switch region access automatically.
- Integrated Lambda function with an internal web-based operational tool through API Gateway and pushed project to production, enhancing visibility and troubleshooting capabilities for engineers across teams.

Full Stack Software Engineer Intern   Dec 2023 – Present
GradeWiz   *Ithaca, NY*
- Designed and implemented tailwind-styled react frontend with RESTful flask backend, utilizing SQLite and S3 bucket for storage along with Anthropic's Claude 3.5 Large Language Model for computation.
- Coordinated with cross-functional team to develop dynamic web platform aiding in grading professor assignments.
- Worked directly with customers to develop features for platform, growing pilot program to more than 1000 users.

Teaching Assistant   Aug 2023 – Present
Cornell University   *Ithaca, NY*
- Conducted office hours and led discussions in Java for 600+ students in Object-Oriented Programming and Data Structures, and in C for 400+ students in Computer System Organization and Programming.
- Provided timely and frequent feedback for students, fostering an environment of learning and discovery.
- Extensively ran unit tests for programming projects and exams throughout the semester, ensuring correctness and completeness.

PROJECTS

Leukemia Cell Detector   Apr 2024
- Developed ResNeXt Convolutional Neural Network to detect Leukemia cells from Bone Marrow Tissue Slides.
- Presented results to researchers at Cornell Operations Research and Information Engineering Research fair.
- Utilized ResNeXt101 model on an augmented dataset from the National Cancer Institute.

Seagull Humorous Caption Generator   Nov 2023
- Implemented large language model with 110 million trainable parameters to generate witty scene captions.
- Generated learnable latent representations and implemented multi-head attention to capture scene context.
- Finetuned Seagull from pretrained model using PyTorch based on the OpenWebText dataset.

Cornell Lost and Found WebApp   May 2023
- Implemented and centralized a Lost and Found web application for Cornell Students in Typescript and React.
- Utilized Google's Firestore to authenticate and store users, their posts, and images, ensuring stability.
- Deployed app using Vercel's built-in compatibility with Next.js and utilized Chakra-UI for readability.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, OCaml, SQL(SQLite), Typescript, HTML/CSS
Frameworks: React, Node.js, Flask, Celery, JUnit, SQLAlchemy
Developer Tools: Git, Linux, Docker, GCP, AWS, Tableau, VS Code, Firebase
Libraries: Pytorch, Sklearn, Pandas, NumPy, Matplotlib