

Justin Wang

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EDUCATION

Northeastern University

Bachelor of Science in Computer Science

September 2020 - December 2023

Boston, MA

TECHNICAL SKILLS

Languages and Frameworks: Java, Python, JavaScript (React, Node, Next), HTML, CSS (Tailwind/SCSS)
Software: Android Studio | MongoDB | AWS | Postman | Figma

EXPERIENCE

Agrofocal Technologies, San Jose, CA

Software Developer

January 2024 - Present

- Automated data validation workflows through monitoring solutions (PyMongo, boto3, Cron), reducing manual oversight by 10+ hours per week
- Designed an OTA (over-the-air) update pipeline cutting end-to-end software deployment time from 5+ hours per release to a fully automated process, ensuring 100% device coverage
- Led end-to-end deployment of internal admin portal (Vite & React), reducing cross-team coordination time by ~80% by consolidating workflows into a single tool
- Built a geospatial visualization tool with Esri's ArcGIS JavaScript API, enabling clients to self-serve insights and reducing custom reporting requests by ~50%
- Addressed costly yield estimation errors from model misclassifications by developing post-processing filtering algorithms, improving prediction accuracy by 20%+

Software Developer Intern

January 2023 - December 2023

- Optimized computer vision models (SSD MobileNet v1) for real-time inference using PyTorch/TensorRT
- Validated model performance through field testing and data collection at agricultural facilities
- Facilitated end-to-end deployment of 15+ stable Android camera application releases

Software Developer Co-op

July 2022 - December 2022

- Implemented motion tracking algorithm (OpenCV) in Android camera application, reducing server-side processing overhead by 50%
- Addressed RTSP video streaming bottlenecks by optimizing video encoding processes, maintaining near-zero frame drops and target FPS
- Resolved image quality issues by identifying and implementing optimal Camera2 API settings, eliminating blur and lens distortion artifacts

PROJECTS

personal website (justinnwang.com)

April 2025 - Present

- Developed a responsive personal portfolio using Next.js and Tailwind CSS

nexus (nexus.justinnwang.com)

November 2023 - April 2025

- Shipped a *League of Legends* analytics platform, built with Next.js and Tailwind CSS
- Streamlined game metadata and asset management through Data Dragon API and AWS S3, ensuring up-to-date content delivery
- Designed RESTful API connecting Riot Games API to MongoDB via Express.js backend, enabling efficient user and game statistics retrieval