

Justin Wang

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EDUCATION

Northeastern University, Boston, MA
Bachelor of Science in Computer Science

September 2020 - December 2023

TECHNICAL KNOWLEDGE

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

RELATED EXPERIENCE

Agrofocal Technologies, San Jose, CA

Software Developer

January 2024 - Present

- Led the design, development, and deployment of a company-wide admin portal for managing client and internal data, leveraging JavaScript (Vite & React) and Tailwind CSS
- Built a geospatial visualization solution utilizing Esri's ArcGIS JavaScript API to transform client data into interactive maps and insights
- Maintained a Flask-based cloud server with secure CRUD APIs (MongoEngine), integrated into the admin portal to streamline database access and management
- Developed post-processing algorithms to detect and filter model misclassifications, increasing yield prediction accuracy by 20%+ across multiple crop types
- Automated corrupted data detection and trend analysis in company databases and cloud storage using Python (PyMongo, boto3, XlsxWriter), reducing manual inspection time by 80%+
- Designed an over-the-air update pipeline to package software versions to AWS and automatically deploy updates to client devices

Software Developer Intern

January 2023 - December 2023

- Trained and optimized object detection models (SSD MobileNet v1) for inference with PyTorch/TensorRT
- Prepared and labeled training datasets by collecting images and yield results from field trials at local farms
- Deployed an Android-based camera application with clients at local farms, incorporating customer feedback to deliver 15+ stable releases with improved UX, stability, and performance

Software Developer Co-op

July 2022 - December 2022

- Implemented a motion tracking algorithm in an Android camera application using OpenCV (Java), reducing frame processing time by ~50%
- Optimized video encoding and streaming via RTSP server in Android camera app, minimizing network congestion and eliminating frame drops while maintaining stable FPS
- Enhanced image processing features with Android's Camera2 API, reducing image blur and lens distortion

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

- Built a responsive web application to track player and match statistics for *League of Legends* using Next.js and Tailwind CSS
- Integrated AWS S3 for storing custom images and Data Dragon API for patch-based assets and static data

nexus-node-server

November 2023 - April 2025

- Designed and implemented a RESTful API with Node.js and Express to fetch data from the Riot API, backed by a MongoDB database for user storage
- Deployed via PM2 and configured secure access with an Nginx reverse proxy over HTTPS