Kevin Yang

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Education

Princeton University Expected May 2026

Bachelor of Science in Engineering in Computer Science *GPA: 3.89*

- Minor in Statistics and Machine Learning
- Relevant Coursework: Algorithms and Data Structures, Introduction to Programming Systems, Computer Architecture and Organization, Introduction to Machine Learning, Natural Language Processing, Computer Vision

Technical Skills

Languages: Java, Python, C, C++, Dart, SQL, Protobuffer, HTML, CSS, Javascript, React, Node.js, Assembly
Tools/Technology: Git, Github, Jira, VS Code, IntelliJ
Publications: AI Emotion Recognition, CNN Flooding, Semantic Segmentation Flooding, AI-supported Citizen Science

Experience

Google | *Java, Dart, AngularDart, SQL, Protobuffer, HTML, CSS* May 2024 – August 2024

Software Engineering Intern *Mountain View, CA*

- **Launched three features** in production for Google Ads, starting from the design document to the launch document
- Restructured full-stack data piping flow for dynamically rendering hotel performance max (pmax) ad previews, leading to an **11% increase** in the average ad strength score
- Researched, designed, and implemented full-stack features to enable external preview sharing for Responsive Search Ads in the search ad editor **(1M+ views per day)**, and Retail Pmax and Hotel Pmax in the pmax ad editor **(100k+ views per day)**

WHIRLab - Rutgers University | *Python, Tensorflow, OpenCV, Java, QGIS* August 2019 – June 2022

Machine Learning Intern *New Brunswick, NJ*

- Developed & trained a Fully Convolutional Network model to segment water in images, reached **73% segmentation precision** & **80% bounding box precision**; presented at AGU & EarthCube
- Semi-automated monoplotting (a computer vision technique) process to establish a correlation between **100+ flood photos** & elevation data; presented at AGU
- Helped implement a Convolutional Neural Network model to predict flood phases from Twitter tweets, achieved **92% precision**; published paper to IEEE Xplore

Projects

AI Emotion Recognition | *Python, Jupyter Notebook, Tensorflow, Keras, NumPy, Flask*

- Implemented, trained, & fine-tuned Convolutional Neural Network model to recognize facial emotion; fused model w/ tonal-emotion model achieved **69% testing accuracy**
- Published to IEEE Xplore; presented in AI track to 100+ at the IEEE MIT URTC Conference

ML Pitch Scorer - Princeton Baseball Analytics Group | *Python, Numpy, Pandas*

- Led scoring project using predictive ML models (Random Forest Regressor) to analyze & predict pitcher outcomes
- Employed Python-based data analysis tools to process data, develop models, and visualize results
- Used by varsity team to train pitchers

Activities

Princeton Baseball Analytics Group September 2023 – Present

- Use ML techniques to analyze game data, extracting useful trends for coaching staff

Princeton Club Baseball September 2022 – Present

- Vice President: Organize games and practices; develop a tight-knit community that balances winning and fun