

# Kevin Nguyen

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## EDUCATION

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**California State University Fullerton**, Fullerton, CA

August 2021 - May 2025

*Bachelors of Science in Computer Science*

*Relevant Coursework:* Algorithm Engineering, Artificial Intelligence, Computer Organization & Assembly Language, Discrete Mathematics

## EXPERIENCE

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**Software Engineering Intern**

May 2024 - July 2024

*CIC Summer Research Project*

- Collaborated with a multidisciplinary team to analyze emotional well-being using social media data and advanced analytics.
- Developed and deployed a neural network model in TensorFlow to predict user emotions based on social media activity, contributing to valuable research insights.
- Created sophisticated data visualizations using Matplotlib and Seaborn to illustrate key research findings, improving the analysis and interpretation of complex data patterns.

## PROJECTS

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**Geospatial Clustering Algorithm - Raytheon Technologies** | *Python, TypeScript, Jira, Confluence*

- Developed a clustering algorithm that resulted in 70% increase in speed to detect regional patterns in large-scale geospatial datasets, enabling spatial analytics for engineering applications.
- Documented milestones and sprint progress using Jira and Confluence, improving team visibility and task management.
- Integrated the clustering logic into a modular backend pipeline, enabling plug-and-play analysis for new datasets.

**Machine Learning NBA Game Predictor** | *Python, Pandas, Scikit-Learn*

- Built a machine learning pipeline using Scikit-Learn to forecast NBA game outcomes based on team and player statistics.
- Conducted data cleaning, feature selection, and model evaluation using accuracy, precision, and recall metrics.
- Calculated key stat differentials (e.g., points, rebounds, assists) between home and away teams to serve as predictive features for a Random Forest classifier.

**Full Stack RSVP Web Application** | *React, Node.js, MongoDB, Express*

- Developed a potluck coordination platform with React, Node.js, Express, and MongoDB, allowing users to create and manage event RSVPs.
- Secured user sessions using OTP-based authentication and JWT with HTTP-only cookies, improving login safety.
- Implemented a role-based permission system for event organizers and guests, ensuring correct access control to modify event data.

## TECHNICAL SKILLS

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- **Languages:** Python, C++, JavaScript, TypeScript, SQL (MySQL, PostgreSQL), HTML, CSS
- **Frameworks:** React, Node.js, Express, Flask, Django, Scikit-Learn, TensorFlow, Tailwind CSS
- **Developer Tools:** Git, GitHub, Jira, Confluence, Postman, MongoDB, Jupyter Notebook, Figma, Vite, Next.js