

# Kevin Doan

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## EDUCATION

<b>Bachelor of Science in Computer Science</b> <b>Texas Christian University, Fort Worth, Texas</b> <b>Relevant Coursework:</b> Introduction to Programming, Data Structures and Algorithms, Linux/Unix System Admin, Database and Server Management, Operating Systems, OOP, Computer Systems and Networks	December 2026 Overall GPA: 3.9
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## WORK EXPERIENCE

<b>Temperature Control System</b> <b>Research Assistant</b>	<i>Dallas – Fort Worth, TX</i> <i>August 2024 – Present</i>
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- Reduce bottlenecks of an PyTorch project by **70%** through the introduction of multi-threading
- Save **10 hours** weekly by eliminating manual retrieval through remote collection of sensor data across Dallas-Fort Worth area
- Enhance safety for **2K+ people** by achieving **80% accuracy** through prediction model, enabling timely and reliable forecasts
- Design and implement a CI/CD pipeline to automatically deploy **LLMs to AWS EC2**, cutting down model inference time by **40%**
- **Technologies used:** PyTorch, AWS, ARIMA time-series, Jupyter Noteboook, REST APIs

<b>TCU Information Technology Office</b> <b>Software Developer Intern</b>	<i>Dallas – Fort Worth, TX</i> <i>May 2024 – August 2024</i>
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- Developed a full-stack system with DevOps pipelines for a class management system, supporting more than **10,000** TCU students
- Generate **\$27,000** annually **by transitioning** from a third-party class management solution to an internally developed system
- Boosted **42%** render speed through API optimization, processing 1K+ courses and handling 30K daily API calls with low latency
- Applied Jest test coverage, reducing **production errors by 60%** and improving debugging time by **30%** for critical components
- **Technologies used:** Scrum, React, GraphQL, Tailwind, OAuth, Firebase, AWS, PostgreSQL, Docker, Nginx, Kubernetes

## PROJECTS

<b>Southern Glazer's Analytics Project</b>
<ul style="list-style-type: none"><li>• Led a team of 5 to deliver 7 full-stack web features, enhancing customer experience for the largest wine distributor in the US</li><li>• Deployed <b>5 interactive, data-driven games</b> to engage users and seamlessly gather input for personalized wine recommendations</li><li>• Integrated <b>Machine Learning algorithms</b> with user inputs to personalize wine recommendation based on user and data analysis</li><li>• Established a chatbot with <b>OpenAI APIs</b>, delivering recommendations by analyzing tastes premium customers' preferences</li><li>• <b>Technologies used:</b> React, NEXT.JS, Tailwind, OpenAI, Supabase, PostgreSQL, Python, Docker</li></ul>

### Market Stock

- Created an application empowering **300+ users** to efficiently manage personalized stock watchlists
- Integrated open-source machine learning model for 65% accurate stock price predictions and personalized buy recommendations
- Processed more than **3,000 data points** and implementing email alerts for price fluctuations, saving users **3 hours daily**
- **Technologies used:** Python, Flask, Django, MongoDB, TensorFlow

### Rate My TCU Professor

- Developed a Chrome Extension for **10K+ TCU students** to streamline decision-making when selecting classes and professors
- **Reverse-engineered RateMyProfessors** data to retrieve and display ratings directly on TCU's class search website.
- Reduced **50%** class monitoring time by applying a real-time notification feature that instantly alerts open slots to students
- **Technologies used:** JavaScript, GraphQL, Google DevTools Protocol, Postman, Express.js, Axios, Puppeteer

## LEADERSHIP EXPERIENCE

<b>TCU Housing &amp; Residence Life</b>   Resident Assistant	<i>August 2024 -Present</i>
<b>TCU Information Technology Office</b>   Lab Service Coordinator	<i>March 2023 - Present</i>
<b>Google Developer Student Clubs</b>   Technical Project Leader	<i>November 2023 – May 2024</i>
<b>Vietnamese Student Association</b>   VP of Logistics and Technology	<i>August 2023 -May 2024</i>
<b>Computer Science Society</b>   Executive Board	<i>August 2023 – March 2024</i>

## SKILLS

- Programming Language Proficiency: Java, JavaScript, C++, Python, C#, SQL, Perl
- Technology: React, Node.js, Express.js, Tailwind, NEXT.JS, REST API, Flask, Django, PostgreSQL, AWS, MongoDB, Docker, PyTorch, TensorFlow, Jupyter Notebook, Agile, Scrum, Git, JSON, Jira, HTML, CSS, Eclipse