Abhinav Kumar

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Education

University of Wisconsin, Madison *Madison, WI*
B.S. Computer Science, Dean's List September 2023 – May 2027
- **Courses**: Algorithms, Operating Systems, Artificial Intelligence, Quantum Mechanics, Statistics

Technical Skills

Languages: Java, JavaScript, Python (pandas, matplotlib, scipy, scikit-learn), C, HTML/CSS, Swift
Technologies: Node.js, React.js, Three.js, PyTorch, PostgreSQL, Supabase, TypeScript
Developer Tools: Jupyter Notebook, Google Cloud, AWS, Azure, Git

Experience

Google *Mountain View, CA*
Incoming Software Engineer July 2027
- Starting full-time after graduation

Software Engineering Intern May - August 2026
- Ideated, designed, implemented, and tested infra/tooling changes to AI Mode Search, significantly increasing recall
- Created and updated backend processes to experiment with various changes to increase AIO/AIM topline metrics
- Built two-tiered LLM evaluation using AST check and temperature-0 stage to test and iterate agentic coding tools
- Worked cross-functionally to organize and host various intern/youth events and contributed to future programming

Global Youth Advisor (GloYo) May 2022 – Jan 2026
- **Panelist for Presidents/VPs of divisions, notably at K&I All Hands attended by over 27,000 staff**
- Analyze effects and outcomes of Google AI/software products, hardware, VR/AR, and content sharing platforms

University of Wisconsin Molecular Imaging Technology Lab (MITRP) *Madison, WI*
AI/CV Research Intern September – December 2025
- **Building MRI/CT MLP and foundational model to identify/predict precursor markers of cancer**
- Using TotalSegmentator and pyRadiomics to create data standardization pipeline to foster robust data analysis

Piles *Madison, WI*
Founder May 2025 – October 2026
- **Built Swift/SwiftUI application for users to save, organize, and interact with web-based content**
- Used Supabase/PostgreSQL to build backend services; reduced load time by 300% using preloading/warm caching

University of Maryland Government Research Lab (ARLIS) *College Park, MD*
AI/ML RISC Student Researcher (CLASSIFIED) June – August 2025
- Trained, researched, and configured open-source Hugging Face transformer and convolutional AI/machine learning models for national security initiatives, building/testing backend in Python, Jupyter Notebooks, and R Studio
- Reduced client's 20+ hour manual tracking process by 90% through developing in-house machine vision application

Projects

BadgerBase | *Advanced Course Selection Platform* August 2025
- **Within one week of release, gained 1,000+ users on course discovery web app for UW students**
- Used Supabase for OAuth, Railway for automation, and Typescript/Node.js/SQL to build frontend and backend

Leadership/Involvement

Editor In Chief *Madison, WI*
Wisconsin Business Review May 2024 – Present
- Oversee all publications under the Wisconsin Business Review, a business journal focused on editorials and news
- Lead 60+ staff writers in ideating, writing, and editing over 180 articles per semester, published in WBR journal
- Foster professional development for members, notably attendance at Harvard and Yale Tech/Business conferences

Nav Tech: TikTok, YouTube
Tech Content Creator January 2024 – Present
- **Create videos discussing tech releases, culture, and stories related to AI, hardware, and startups**