Kushal Gadamsetty

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EDUCATION

Barrett The Honors College at Arizona State University — Tempe, AZ
Bachelor of Science in Computer Science and Mathematics (Statistics); GPA: 4.0/4.0 — *May 2027*

WORK EXPERIENCE

AI and Deep Learning for Imaging and Medicine Lab — April 2025 – Present
Research Assistant — *Tempe, AZ*
- Engineered and optimized ResNet-50 models, achieving 95%+ accuracy across 18 biomedical image datasets, including critical brain tumor classification, verified through 5-fold cross-validation experiments
- Collaborated with PhD researchers to develop multimodal medical foundation models based on GPT-4 and Llama architectures, contributing to publications in conferences such as MICCAI and CVPR

Biodesign Institute — September 2024 – May 2025
Undergraduate Researcher — *Tempe, AZ*
- Implemented a Bayesian network inference framework to map censorship across 10+ Russian autonomous systems, transforming raw CSV measurements to JSON for binomial model analysis
- Engineered visualization algorithms that generated network topology maps revealing distinct censorship patterns across DNS, HTTP-Diff, TCP-IP, and HTTP-Failure protocols

ASU New Venture Group — November 2024 – Present
Strategy Consultant — *Tempe, AZ*
- Researched e-commerce search technology market for YC-backed startup Treive, analyzing how competitors like Klevu achieved 95%+ conversion rates
- Developed multi-channel marketing strategy recommendations based on competitive analysis of search technology leaders, emphasizing case study metrics, partner ecosystem development, and targeted content marketing

Tamid Group — November 2024 – Present
Frontend Web Developer — *Tempe, AZ*
- Engineered responsive, mobile-friendly websites for TAMID Group and various ASU campus organizations to create dynamic user interfaces with reusable components
- Collaborated with Israeli startup Tut-a-Tet to architect and deploy their tutoring service on AWS, leveraging EC2 for scalable infrastructure

PROJECTS

Responsive Portfolio Website | *React, CSS, JavaScript, HTML* — March 2025
- Engineered a fully responsive portfolio website utilizing industry standard languages implementing interactive UI elements and seamless navigation to showcase professional work across all device types
- Demonstrated strong front-end development skills by incorporating custom animations, optimizing mobile devices, and implementing version control

Hackathon Winner, City of Phoenix Air Quality Challenge | *Python, tableau, JavaScript* — December 2024
- Collaborated with team of 5 in developing an innovative youth-focused advocacy solution to improve air quality, securing first place and a $2,875 prize
- Developed an MVP for a leaderboard-focused web application with React and Node.js, leveraging Vercel's Platforms and AI-powered tools

Project SPYN - Autonomous Maze Navigation Robot | *MATLAB, Control Systems, Lego EV3* — November 2024
- Engineered a fully autonomous robot using LEGO EV3 hardware set, implementing path-finding algorithms in MATLAB to successfully navigate complex maze environments
- Developed comprehensive control systems including sensor integration, motor control, and obstacle detection algorithms to enable real-time decision making and path correction

Custom DNS and VPN Server | *Unix, Docker, Oracle Cloud* — June 2024
- Architected and deployed a robust DNS and VPN server solution on Oracle Cloud, significantly enhancing privacy and data security for public network access
- Engineered encrypted client–server communications with WireGuard for robust data protection, while leveraging Docker containerization to streamline deployments and optimize performance across various clients

LEADERSHIP

Lead Volunteer | *SEWA International, St Mary's Food Bank*
- Volunteer for packaged meal kits in high volume assembly line teams

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML/CSS, Matlab, C++
Libraries/Tools: Docker, React, Oracle Cloud, Git, AWS Cloud, Unix/Linux, Stan, NumPy, Pandas, Slurm
Interests: Rubik's cubes, Raspberry Pi Hobbyist, Anime, Soccer, iPod Classic Enthusiast, 2024 NASA Space Camp Graduate