

Kushal Gadamsetty

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EDUCATION

Barrett The Honors College at Arizona State University Bachelor of Science in Computer Science and Mathematics (Statistics); GPA: 4.0/4.0 Relevant Coursework: Data Structures and Algorithms, Applied Linear Algebra, Computer Vision, Multivariable Calculus, Discrete Mathematical Structures,	Tempe, AZ <i>May 2028</i>
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WORK EXPERIENCE

AI and Deep Learning for Imaging and Medicine Lab <i>Research Assistant</i> <ul style="list-style-type: none">Engineered automated ML training pipeline processing 300GB+ X-ray datasets on ASU GPU infrastructure, developing Python scripts and SLURM scheduling reducing training setup time by 40%+Built ResNet-50 classification and segmentation models achieving 95%+ accuracy across 18 organ-specific classifications, collaborating with 10+ researchers on comparative analysis and cancer detection	April 2025 – Present <i>Tempe, AZ</i>
Tamid Group <i>Frontend Web Developer</i> <ul style="list-style-type: none">Developed full-stack applications serving 1000+ users using React and Node, building reusable components and SQL database integrations for improved user experienceArchitected cloud infrastructure for Israeli startup Tut-a-Tet on AWS EC2, establishing scalable deployment and monitoring systems supporting 500+ concurrent tutoring sessions	November 2024 – Present <i>Tempe, AZ</i>
Biodesign Institute at ASU <i>Undergraduate Researcher</i> <ul style="list-style-type: none">Built data processing pipeline transforming 100GB+ network topology data from CSV to JSON, implementing Python ETL workflows to analyze 10+ Russian ISP systems and predict node censorship probability using bayesian inferenceDeveloped network visualizations using Matplotlib with PyStan for statistical analysis, creating interactive web dashboards of connected network nodes with 50% faster rendering and collaborating with 4+ Phd researchers	September 2024 – May 2025 <i>Tempe, AZ</i>

PROJECTS

Badgesheet <i>React, Supabase, Stripe, Git, Typescript, Javascript</i>	Site
<ul style="list-style-type: none">Built a full-stack SaaS platform processing 10,000+ name badge generations for event organizersArchitected a scalable PostgreSQL database and created a Stripe payment API supporting 500+ concurrent usersImplemented serverless edge functions to reduce API response latency by 40% and minimize hosting costs	
Phoenix Air Quality Dashboard (Hackathon Winner) <i>React, Node.js, Python, Tableau, JavaScript</i>	Site
<ul style="list-style-type: none">Built a full-stack web application serving 1,000+ users across Phoenix metropolitan area with real-time air quality dataCreated a custom API to access air quality sensors citywide, implementing CI/CD pipelines for Vercel deploymentLed cross-functional team of 5 developers to secure first place and \$2,875 prize implementing agile development	
Autonomous Maze Navigation Robot <i>MATLAB, Control Systems, Lego EV3</i>	Site
<ul style="list-style-type: none">Built embedded control system processing 3+ sensor inputs at 10Hz achieving 95%+ maze completionDeveloped modular MATLAB codebase with 200+ lines of optimized PID control algorithms for navigationImplemented real-time state machine with 5 operational modes and sub-second obstacle response timesCreated keyboard-driven manual override system supporting 8+ control commands with failsafe protocols	
Secure DNS and VPN Infrastructure <i>AWS EC2, Oracle Cloud, WireGuard, Unix, Docker</i>	
<ul style="list-style-type: none">Built distributed DNS infrastructure processing 20,000+ daily queries with 99%+ uptimeArchitected dual-cloud system with AWS EC2 and Oracle Cloud, supporting 12+ users and 300GB+ trafficImplemented containerized WireGuard VPN with automated deployment and failover protocols	

TECHNICAL SKILLS

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

LEADERSHIP

Lead Volunteer <i>SEWA International, St Mary's Food Bank</i> <ul style="list-style-type: none">Led high-volume assembly team of 10+ volunteers packaging 500+ meal kits monthly for food-insecure families
Strategy Consultant <i>New Venture Group at ASU</i> <ul style="list-style-type: none">Analyzed search algorithms for YC startup Trieve, delivering data-driven recommendations via competitive analysis