SHAWN KRISHNAN

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EDUCATION

Carnegie Mellon University — May 2025
Master of Science in Artificial Intelligence Engineering — Pittsburgh, PA
  GPA: 3.79 / 4.00 · Graduate Portfolio: https://shawnkrishnan.github.io/me-projects.html

Carnegie Mellon University — Dec 2023
Bachelor of Science in Mechanical Engineering — Pittsburgh, PA
  GPA: 3.74 / 4.00 · Undergraduate Portfolio: https://shawnkrishnan.github.io/me-projects.html

WORK EXPERIENCE

College of Engineering: MetaMobility Lab — July 2025 – Present
Research Advised By Professor Insueng Kang — Pittsburgh, PA
- **Reinforcement Learning Based Prosthetic Control**: Designed and evaluated controllers for trans-tibial prosthetics in simulation, imitation learning achieved stable gait reproduction with 3% error in kinematics and torque across varied configurations.

Docu Slides - www.theslidevox.com — May 2025 – June 2025
Executive Director – Management Consulting — Pittsburgh, PA
- **Team Management**: Appointed by CMU AI Professor to lead a cross-functional team of 8 (3 front-end engineers, 2 back-end engineers and 2 consultants) to develop a Mean Value Proposition for Multi-Agent AI software to convert documents into lecture style videos.
- **Strategy**: Conducted customer discovery interviews, prepared investor pitch materials, and led meetings with analysts at top venture capital firms to present our product vision and gather strategic feedback for refining our go-to-market strategy.
- **Technical Execution**: Managed GitHub workflows, sprint cycles, and release testing.

College of Engineering: Mechanical Artificial Intelligence Lab — Aug 2024 – May 2025
Graduate Research Assistant — Pittsburgh, PA
- **PDE Model Benchmarking**: Benchmarked deep-learning and physics-informed neural network methods for PDE optimization. Performed quantitative analyses across multiple datasets.

Comtech Telecommunications Corp. – comtech.com — May 2024 – Aug 2024
AI / NLP (Natural Language Processing) Systems Engineering Intern — Seattle, WA
- **AWS Lambda & NLP Integration**: Developed AWS Lambda functions using AWS Lex for real-time call-severity classification to assist 911 operators' decision-making.
- **Natural Language Regression**: Integrated a multi-modal Naive Bayes classifier into communication APIs, enhancing transcription and severity assignment.
- **Flask Data API**: Built a Flask service to package and forward emergency call data (timestamp, caller info, location) to PSAP systems for improved emergency response and 911 operator decision-making.

Ingredion Incorporated – ingredion.com — May 2023 – Aug 2023
Technical Sales Intern — Bridgewater, NJ
- **Salesforce Research & Analysis**: Conducted comprehensive research and analysis in Salesforce to identify growth opportunities and potential revenue increases based on competitors' performance. Resulted in an additional 38% of potential sales volume for Ingredion.
- **Market Communication**: Delivered high-impact presentations and reports to communicate market opportunities to executives and sales account managers effectively.
- **Client Relations**: Participated in sales calls, fostering strong client relationships and presenting product offerings and solutions to drive business growth, primarily with start-up ventures focusing on vegan and other dietary-constrained alternatives.

Carnegie Mellon University: College of Engineering — Jan 2023 – Dec 2023
Graduate & Undergraduate Teaching Assistant — Pittsburgh, PA
- **Courses Supported**: 24-791 Graduate Seminar I; 24-370 Mechanical Design; 24-221 Thermodynamics.
- **Classroom Management & Grading**: Managed logistics and graded assignments, quizzes, and exams to support an effective learning environment.

SKILLS & ACTIVITIES

Analytical Tools & Software: Excel, Python, SQL, MATLAB, Salesforce, Spark
Technical Skills & Frameworks: PyTorch, TensorFlow, Keras, Java, C++, Docker, FastAPI, OpenCV, Simulink
Engineering & Modeling: SolidWorks, ANSYS, CNC Machining, 3D Printing, MIG Welding, Laser & Electron Beam Powder Bed Fusion, ExOne Binder Jet
Activities & Honors: NCAA Division III Varsity Track & Field, SAFE AI LAB (Prof. Ding Zhao), 3× Dean's List, University Honors, CIT Mechanical Engineering Expo: Best Overall Project
Languages: English (Native), Tamil (Fluent)
Interests: Formula 1, Tennis, Golf, Basketball, Electronic Music Production, Biomechanics Research, Distance Running