

RISHON NIMMAKAYALA

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EDUCATION

Virginia Polytechnic Institute and State University - College of Engineering

Blacksburg, VA

B.E. in Computer Science

Class of 2028

B.S. in Mathematics

Academics: GPA: 3.52/4.00 (Dean's List)

WORK & LEADERSHIP EXPERIENCE

Commodity Investing by Students (COINS)

Blacksburg, VA

Metals Quantitative Analyst, Copper Analyst

Sept 2024-Present

- Assist in investing up to \$1M on behalf of the Virginia Tech Foundation for the nation's only student-run commodity trading group diversified in futures-based ETFs and ETNs.
- Developed Copper (HG) trade ideas, employing technical and fundamental analysis, regression analysis and critical thinking skills.

LCPS School Business Partnership: Computer Science Committee

Ashburn, VA

Student Representative

Apr 2023-Aug 2024

- Facilitated workshops and opportunities to connect business partners with teachers and students.
- Assisted in designing the largest internship/career fair (100+ businesses) in Loudoun County: Elevate Loudoun.

Kashmir World Foundation

Great Falls, VA

Software Engineering Intern

Jan 2022-Aug 2024

- Created mobile and desktop application + interface that connected over 400 Tajikistan and Nepal researchers to upload tracking data and images for snow leopard conservation.
- Developed cutting-edge snow leopard monitoring program monitoring program with artificial intelligence and custom UAV technology.

NASA Goddard Mission Program for AIAA-NCS Awardee

Greenbelt, MD

Intern

Jun 2023-Jul 2023

- Engaged in NASA Goddard Mission Experience by the American Institute of Aeronautics & Astronautics National Capital Section and NASA Goddard Space Flight Center for first place AIAA-NCS Project Awardees.
- Developed cutting-edge snow leopard monitoring program monitoring program with artificial intelligence and custom UAV technology.

PROJECTS

Portal Screen Transcription Device - Virginia Tech General Engineering

Blacksburg, VA

Lead Engineer & Programmer

Aug 2024-Present

- Developed a 5x7" clip-on screen that records live transcription of lectures from professor dialogues.
- Designed & printed locking-mechanism and sliding technology through FUSION and programmed machine learning program utilizing OpenAI's Whisper model for multi-lingual transcription with an accuracy of 86% with a medium-load model.

Machine Learning Drones for Disaster Relief

Ashburn, VA

Co-lead Engineer & Programmer

Aug 2023-Aug 2024

- Developed human identification and landscape mapping software to assist in disaster relief through the use of drones.
- Project competed at RSEF George Mason University (3rd in Robotics and Intelligent Machines, 1st in AIAA-NASA Design) and ICEF.
- Selected as 1 of ~500 competitors for exclusive NASA program on upcoming Nancy Grace Roman Space Telescope.

Medical ML Algorithm Scientific Publication

Reston, VA

Research and Programming

Aug 2023-Aug 2024

- Created ML product that takes latest research in longevity and wellness as input and outputs personalized recommendations on how middle-aged and older groups can improve their longevity.
- Presented at DSC US HEALTH TECH 22 Conference and distributed to local hospitals and METY Tech.

SKILLS & INTERESTS

- **Technical Skills and Programs:** Microsoft Office Suite, Python, Java, React (+Native), Multivariable Calculus, Microsoft Office (Excel, Word, PowerPoint), Interest Rate and Currency Derivatives, Financial Modeling, Bloomberg Terminal.
- **Interests:** Trading, Bodybuilding, UFC, Soccer, Music, Hiking, Dogs (German Shepards), Machine Learning, Option Models, Medical Research, Reading, Crossbreeding Peppers, Snowboarding, Cooking, Thai Cuisine, Texas Hold'em