

Shawanwit Poomsa-ad

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EDUCATION

Purdue University B.S. in Mathematics <i>relevant classes: Big data in Physics; Advanced Problem Solving</i>	July 2024 - Present 4.00 GPA
Khon Kaen Wittayayon School, Thailand Secondary School Diploma	Jan 2019 - Aug 2022 4.00 GPA

TECHNICAL EXPERIENCE

Physics Datamine, Purdue University High-Energy Physics Research Group <ul style="list-style-type: none">Selected as part of a cohort “rediscovering” the Higgs Boson from scratch using elementary techniques.Focused exposure to the rigorous particle physics and statistical tools behind experimental physics.Conducted manipulation and cleaning of CERN’s CMS open dataset through Python.Collaborated and gave peer-to-peer expository talks on emerging trends and essential topics.	Aug 2024 - Present
Purdue Space Program, Purdue University Astrodynamics Group <ul style="list-style-type: none">Developed orbital propagator in MATLAB with numerical methods.Learned Ansys STK for orbital calculations and modeled a Hohmann Transfer and other common orbits.Use of sequential complex programming packages (mainly SCPToolbox) for trajectory optimization.Engaged in literature review for a future team project in orbital optimization for asteroid mining.	July 2024 - Present

EMPLOYMENT

Ministry of Foreign Affairs, Thailand Project Intern (Department of International Organizations) <ul style="list-style-type: none">Selected as part of a competitive internship program for students interested in Thailand’s role in the UN.Delivered written reports and presentations on key global issues such as food insecurity and tuberculosis.Performed qualitative research for department information sessions.Shadowed diplomats and officials during the lead up to the United Nations General Assembly.	July 2023 - Aug 2023
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KEY COMPETENCIES

Data Science and Statistics Python Julia R
Computing and Computational Methods MATLAB C/C++ GNU/Linux
Calculus, Linear Algebra, and Differential Eqns
Basic Knowledge of Lean Theorem Prover

SOFT SKILLS

Communication
Documentation, Presentation, and Public Speaking
Research and Knowledge Acquisition
Languages
Fluent English Thai
Conversational Lao