TOMMY KUAN

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EDUCATION

University of Minnesota Twin Cities   *Fall 2018 - Spring 2021*
Bachelor of Science, Major in Physics (Computational), Minor in Computer Science.
Cumulative GPA: 3.652

EXPERIENCE

Sezzle Inc   June 2021 - Present
Software Engineer — Go, React & React Native (Typescript), Docker, ETL, k8s   *Minneapolis, MN*

· Exhibit strong character while financially empowering the next generation.
· Built and maintained well-tested, backward-compatible, and secure shopper authentication systems.
· Designed and developed REST APIs and features in the Web and Mobile app that continuously improving a user's experience.
· Developed metrics to measure and monitor KPIs that are crucial to customer retention in the AGILE fashion.

University of Minnesota Gravitational Wave Group   Jan 2020 - Present
Research Assistant — Python, NumPy, Matplotlib   *Minneapolis, MN*

· Diagnose problems with the Bayesian LISA Pipeline written by Sharan Banagiri that detects parameters of interest from the stochastic gravitational wave backgrounds.
· Added another model that recovers certain parameters that describes the primordial gravitational waves induced at the infant universe. (`https://github.com/sharanbngr/blip`)

School of Physics and Astronomy, University of Minnesota   Sept 2019 - Dec 2019
Teaching Assistant   *Minneapolis, MN*

· Conducted discussion sessions with students individually or in smaller groups.
· Guided and explained teaching material in a "language" that first year students can understand easily and increase student's interest in physics.

University of Minnesota Cosmology Lab   Summer 2019
Material Analyzer — Python   *Minneapolis, MN*

· Created an efficient method to test the transmission coefficient of silicon wafer made for Cosmic Microwave Background detection.
· Worked with Rohde & Schwarz generators and analyzers, wrote a script to collect data from R&S automatically.

H.O.M.E Lab Sunway University Malaysia   Aug 2017 - Aug 2018
Research Assistant — Javascript, NodeJS, 3JS, Arduino, Johnny-FiveJS   *Subang Jaya, Malaysia*

· Led an interdisciplinary research project funded by the Malaysian Communications and Multimedia Commission that aide the visually impaired (VI) communities to catch up with the e-commerce transformation.

TECHNICAL STRENGTHS

Tools	Docker, Git, Grafana, Redash, Singer-ETL, NumPy, skLearn, Pandas, Matplotlib
Frameworks	Gin, GORM, React, React Native, Flask