

JAMES PIEROG

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EDUCATION

Yale-NUS College

2018 - May 2022

BSc in Mathematical, Computational and Statistical Sciences

EXPERIENCE

Rialtos | Co-Founder and CEO

Sept 2020 - July 2021

Full Time

Singapore

- I co-founded Rialtos, an online marketplace that lets visual artists license their work to small businesses for their branding and marketing needs.
- Joined the NUS Hangar and Reactor School incubator programs to accelerate development in Rialtos.
- Launched the minimum viable product on Jan 1st 2021 and bootstrapped to over 600 artworks uploaded by 60 users and \$140 GMV by March 2021 without any external investment.
- Developed the front-end with Angular and back-end with Firebase and Google Cloud.
- Integrated multiple APIs and microservices such as Algolia for fulltext search and ffmpeg and web assembly for image and video watermarking and resizing.

Billy Hong Beats | Freelance Music Producer

Jan 2020 - Sept 2020

Full Time

Singapore

- Started my own freelance music production business where I created, marketed, and licensed my instrumentals to various international clients.
- As of October 2021 the instrumentals and songs I've made or produced have accumulated over 83,000 views on various online music streaming platforms.

Yale-NUS | Mathematical Research Assistant

Jan 2019 – Aug 2019

Full-time

Yale-NUS College

- Learned the Unified Transform Method for solving certain classes of partial differential equations pioneered by Professor Dave Smith
- Worked under Professor Dave Smith to model solutions of the Korteweg-de Vries equation
- Completed the project UTM stage 1 for interface linearization of KdV solitons in summer 2019.

Yale-NUS | Independent Mathematical Researcher

Oct 2018 – Aug 2019

Part-Time

Yale-NUS College

- Pursued research in finite group theory under the supervision of Professor Francesca Spagnuolo.
- Discovered the conditions of finite group isomorphism with a new method using recursive sequences.

ADDITIONAL INFORMATION

Front-end Development

Angular, React, Webassembly

Back-end Development

Node.js, Docker, Google Cloud Services, NoSQL databases, Firebase

General Programming

Haskell, Coq, Java, GAP, Python, Javascript, Node.js, HTML, CSS

UI and UX Design

Figma, Adobe Spark

Data Analysis and ML

Python, Pytorch, R, Mixpanel, Google Analytics

Media Production

Logic Pro X, Cubase, Final Cut Pro X

TECHNICAL KNOWLEDGE

Mathematics

High proficiency in group theory, linear algebra, and applied mathematics

Cryptography

General knowledge in cryptography with a focus in non-commutative protocols

Computer Science

Formal methods to verify code correctness, specification, and security