

# Pak Hong (James) Leung

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## Experience

Web Application Developer at NewOrbit Since Dec 2020

I took on full-stack development using .Net, React, Cosmos Db and Azure, following Agile practices. I built apps that serve thousands of users, working closely with experienced developers and business analysts to ensure that my products met the required standards. Taking ownership of my user stories and answering to unforeseen issues promptly was of utmost importance.

## Postgraduate Education

Duke University: Ph.D. student (graduated 2020) 2018 - 2020

Majoring in physics, I programmed extensively with Python to create highly efficient simulations, in order to maximise performance of quantum computers and mitigate errors stemming from quantum effects, while collaborating with experimentalists in writing research articles.

Georgia Tech: Teaching Assistant 2015 - 2017

My main responsibility was to nurture undergraduate students in physics and engage them in interactive labs and Q&A sessions. Other tasks include grading mid-term exams, handling experimental hardware, and teaching students basic Python using IDLE.

## Select Graduate Publications

- [Robust 2-qubit Gates in a Linear Ion Crystal Using a Frequency-Modulated Driving Force](#)
- [Entangling an Arbitrary Pair of Qubits in a Long Ion Crystal](#)
- [Two-qubit entangling gate within an Arbitrarily long Chains of Trapped Ions](#)

## Summary

I am a software developer with 3 years of industry experience, currently looking for a mid-level Golang developer role. My passion for building software began during my Ph.D. programme in physics, where I developed Python functions that solved critical problems in quantum computation. I moved on from academic research in 2020 to begin a new career as a full-stack developer, building websites with seamless user experience and solid back-end services.

## Skill Set

- Rigorous problem solving from academic training
- Golang
- C# / .Net
- Azure
- CI / CD
- Typescript / Javascript
- React
- Node.js
- Python
- Docker
- Git
- HTML and CSS
- VS Code / Visual Studio