

Jiahao Woo

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WORK AUTHORIZATION

Singapore Citizen; **eligible for H-1B1 and J-1 US visas**, as well as an **HPI UK visa, with no petition required**.

EDUCATION

Bachelor of Computing (Honors) in Computer Science
National University of Singapore

GPA: 4.67/5.00
Expected Graduation: May 2025

EXPERIENCE

Software Engineering Intern (Fullstack)

May 2023 — Aug 2023

Betafi

- Implemented word boosting for transcript generation and automatic summarization using GPT-3.5 and GPT-4
- Enhanced transcription pipeline by increasing language availability, incorporating support for transcription languages from both GCP and AWS
- Optimized user experience by developing project template feature for users to adopt user interview questions recommended by user research veterans
- Streamlined integration system by implementing email notifications for integration settings changes

Software Engineering/Research Intern

Jul 2020 — Sep 2020

DSO National Laboratories

- Created crawler using Twitter API to increase model training data by 80% to improve data available for unsupervised learning model
- Pioneered a novel approach for unsupervised stance detection by enhancing existing models (GCN & BERT) with social media information

Software Engineering Intern

Apr 2019 — Aug 2019

DBS Bank

- Provided higher management with data-driven insights by leveraging data analytics generated with Java and Python, influencing bank-wide infrastructure decisions
- Engineered automation scripts to streamline workflows, reducing manual Excel document creation time by around 40% and boosting team productivity and efficiency
- Spearheaded User Acceptance Testing efforts across teams in Singapore branch, achieving over 90% UAT completion within 5 months

PROJECTS

Software Engineer (Backend)

Aug 2022 — Jul 2023

NUS Google Developer Student Club

- Leveraged Typescript and Nest.js to develop features for a learning platform for dyslexic students, enhancing the functionality and capabilities of the system used by over 3,000 students
- Deployed backend system to Heroku, orchestrating integration of S3 and Heroku PostgreSQL for seamless data storage, ensuring efficient and reliable data management
- Enhanced API security through fully customisable role-based and attribute-based control system, enabling the granular security configuration over each endpoint

Software Engineer

Dec 2022 — Jan 2023

Hermes Web Forum

- Optimized overall user experience through features like post voting, comment system, post tagging, and markdown editing
- Enforced user security through the implementation of JWT authentication and authorization, guaranteeing proper user access control and incorporating an auto-refreshing mechanism for uninterrupted user sessions

Guest Author

Jul 2021 — Present

AppSignal, BetterStack Community

- Authored a notable series of comprehensive articles on [metaprogramming in Elixir](#)
- Crafted informative articles on Python logging fundamentals, logging in Django applications, Go-based SQL database access, and JSON handling in Go, delivering concise and valuable knowledge on these topics

SKILLS

Languages: Elixir, Go, Python, Javascript, Typescript, Java, HTML, CSS, PostgreSQL

Technologies/Frameworks: Phoenix, React, Nest.js, Gin, Django, Docker, Linux, Heroku