

Hao Duong

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Personal Profile

Highly-driven computer science graduate student with prior experience in executing and managing technical projects across different domains. Seeking a position as a software engineer where I can have real-world impact and expand my skill set in an innovative and growth-orientated environment.

Skills

- Programming** Python (Pandas, NumPy, Scikit-learn, Flask), C, C#, Java, HTML, CSS, JavaScript, TypeScript, React (Next.js), Node.js, SQL, VBA, Swift, SwiftUI.
- Miscellaneous** Linux, Shell (Bash/Zsh), \LaTeX (Overleaf), Microsoft Office, Git.

Work Experience

Babcock

Adelaide, Australia

Mechanical Engineer

Mar 2020 - Jun 2022

- Developed and trained colleagues on a new technical data management system that reduced data inconsistencies and subsequent remediation efforts by 90%.
- Executed and managed engineering investigations in accordance with internal and external stakeholder requirements.
- Produced and reviewed documentation records in response to engineering investigations, obsolescence issues and customer requests.
- Coordinated cross-functional teams in implementing an automated data visualisations pipeline in Power BI that enabled senior management to efficiently and transparently provide updates on any projects status.
- Managed product baseline updates in accordance with change management processes.
- Led team to identify Babcock's sustainability position and advocated for improvement initiatives to support the company's sustainability goals.
- Technical Skills:** VBA, Version Control.

Defence Science and Technology Group (DSTG) - Small Satellite Team

Adelaide, Australia

Industry Experience Placement

Feb 2018 - Nov 2019

- Developed a data visualisation tool in Python for analysis of satellite telemetry from an SQLite database.
- Developed an automation tool in Python to ingest and decode satellite telemetry logs to determine the next set of telemetry to collect.
- Designed and implemented a 6DOF CubeSat simulation in C# to support root cause analyses of operational issues.
- Contributed to the specification of requirements, scheduling and task allocation project planning documents for future missions through consultation with stakeholders.
- Technical Skills:** C#, Python (Tkinter, SQLite, NumPy, Matplotlib), Git.

Projects

Spotttr

Personal

- Developed a workout tracking app for iOS users to log workouts and track progress.
- Technical Skills:** Mobile Development, MVVM, iOS, Swift, CoreData

Blog

Personal

- Developed and deployed a blog that showcases my personal travel experiences, photography and life in general.
- Technical Skills:** Next.js, TypeScript, Headless CMS, CSS, HTML

Education

University of Melbourne

Melbourne, Australia

Graduate Diploma in Computer Science

Jul 2022 - June 2023

- Weighted Average Mark: 84%
- Courses:** Data Science, Networking, Data Structures and Algorithms, Distributed Systems, Artificial Intelligence, Machine Learning

University of Adelaide

Adelaide, Australia

Bachelor of Engineering (Honours) - Mechanical

Mar 2014 - Dec 2019

- Graduated with First Class Honours (GPA: 6.5/7)

Nagoya University

Nagoya, Japan

Exchange Program

Feb 2016 - Feb 2017

- Joseph Miller Travel Scholarship in 2016

References available upon request.