Adam Ilyas

Interests in: Mathematics, Computer Science, Analytics, System Architecture,
Personal Website: adamilyas.netlify.app | Github: adamilyas
9783 6944 | adamilyas0@gmail.com | Singaporean | Software Engineer

Education

Singapore University of Technology and Design	May 16 to Aug 19

Bachelor of Engineering (Engineering Systems and Design), Honours
SUTD Scholarship Holder, Academic Exco

Aalto University, Finland	Sep 18 to Dec 18

Exchange Studies - Computer Science
SICC Global Exchange Award Recipient (Awarded to only 3 students)
  Computer Vision, Data Mining, Machine Learning, Complex Networks

WORK EXPERIENCES

Grab, Software Engineer	Oct 20 - Present

- Maintain/ develop automated workflow for generating Financial Statements in Southeast Asia (4+ countries) to ensure financial compliance
- Technology: Go, React and AWS
- Promote test driven development and testable code to ensure correctness, maintaining more than 80% for both code and API coverage.

Amigoals, Technical Lead - Software Engineer	Feb 21 - Present

- In charge of implementing/ maintaining features and guiding 2 other developers
- Maintain code base via unit test coverage and version control
- Technology: React, Go, DigitalOcean
- Onboarded 100+ mentors onto the platform

Telstra, Software Engineer	Sep 19 - Present

- Successfully developed, tested, deployed API endpoints for business units to search Australia's available phone numbers
- Tech: Java, Postgresql, Bamboo, Python and AWS

Shopee, Operations / Data Analytics / Automation Intern	May 18 to Sep 18

- Automated the maintenance of virtual inventory stock levels in front end warehouse system using Python, SQL (Spark), Task Scheduler (Linux)
- Coordinated with teams from Southeast Asia to ensure smooth operation through analysis of warehouse data and backlogs using Python and SQL

Haste, Backend Developer	Jan 18 to Apr 18

- Successfully deployed API backend and Database for Applications to be used by clients commercially in multiple local shops in Singapore
- Technology: Node.js, Express.js, MySQL workbench, DigitalOcean

Jewel Paymentech, Product Specialist Intern	May 17 to Sep 17

- Collaborated with Product Manager and Developers to ensure specifications by clients from Singapore, Malaysia and Hong Kong are met

PROJECTS

DDoS Monitoring, Detection and Prediction TATA communications	Feb 19 to Present

Student Consultant

- Building a proactive/ predictive monitoring system using big-data, machine learning and deep learning algorithms by parsing internet traffic data
- Liaised with TATA's strategy and data science experts based overseas to develop a system that will be integrated into their services

Analysis of Bank Branches DBS	Jan 18 to Apr 18

Position: Process Improvement and Analyst

- Collaborated with DBS bank to obtain data and insights
- Optimized queues in DBS branch when faced with uncertain demand.
- Tech: Python (Pandas, sklearn, matplotlib), R (data visualization)

Text Mining of Financial reports Infineon	Sep 17 to Nov 17

Position: Data Analyst

- Analysed and obtained financial insights by automating information retrieval of Financial reports (PDFs) via various algorithms, web scraping and data visualisation using R and Python libraries (Pandas, NLTK, Plot.ly, matplotlib)

Application Architecture for health-based intervention

Mar 18 to Apr 18

Position: Full-Stack Developer and System Architect
- Ideated a health-based application using various design methodology
- Designed the system architecture, developed a prototype using React, Node.js and MongoDB

Data-driven Household Load Sharing system and Interface (IoT)

Mar 17 to Apr 17

- Optimized a real-time matching algorithm for sharing of household chores
- Deployed backend for efficient data-flow between interface, server and physical appliances using Python, Firebase, Raspberry Pi

LEADERSHIP AND CO-CURRICULAR ACTIVITIES

Vietnam Overseas Learning Project - Project Director

May 17 to Jan 18

- Led a team of 30 students in a community outreach project to rural Vietnam
- Achieved the best Rotary Overseas Community Project in the Region

Rotaract@SUTD – Community Service Club - Exco and Camp Director

May 17 to May 18

- Actively planned and facilitate Science Technology Engineering Math workshops for children from lower-income families
- Designed and executed a science day camp for 50 kids coming from lower income family to nurture interest in learning Science and Technology

MIT-SUTD Collaboration: 2016 LEAD Program

May 16 to Aug 16

- Led a team of students from cultures and nationality from both SUTD and MIT to plan a school wide Independence Day event
- Undergone an eight-week intensive program designed to develop students from both schools into effective leaders and communicators

University Ambassadors

Sep 17 to May 18

- Engaged and facilitated guest for various school ceremonies
- Inspired prospective students by sharing school experience
- Ensured smooth operations of events such as SUTD open house

Sports (Floorball)
- School Varsity Team, Singapore University Games (2016. 2017)

May 2016 to Present

TECHNICAL SKILLS

General: Go, Python, Javascript, Java
Database: PostgreSQL, MySQL, MongoDB, FireBase
Frontend:: React
Backend: Node.js, Express.js, Java SpringBoot, Flask