Syed Abdullah

EDUCATION

BComp (Computer Science)	National University of Singapore (NUS)	2015 – 2019 (expected)

Focus Area – Parallel Computing & Programming Languages   CAP: 4.54/5.0
- Awarded the NUS Undergraduate (Merit) Scholarship, a **university-wide, merit-based, bond-free scholarship**
- Participating in the University Scholars Programme (USP), a **honors college** for NUS
- USP Peer Mentoring Programme – Computing Co-ordinator in AY2016/17. Managed a group of student mentors.

RELEVANT EXPERIENCE

Teaching Assistant	NUS School of Computing	Aug 2016 – Present

- CS1101S: Programming Methodology (08/2016 – 12/2016) – taught tutorial group of 8 CS students in fast-paced course
- CS2100: Computer Organization (01/2016 – 05/2017) – supervised & graded work for 40 students in 2 lab groups
- CS2103/T: Software Engineering (08/2017 – Present) – guiding 2-4 teams on their Software Engineering projects
- IT1007: Python & C intro (08/2017 – Present) – teach, supervise & grade 15 students in 1 lab session
- CS2106: Intro to Operating Systems (08/2017 – Present) – supervise & grade work for 40 students in 2 lab groups

Software Engineering Intern	ViSenze	May 2017 – Aug 2017

- **Sole full-stack developer** of visual AI recognition and search evaluation system. Developed, document and deployed system & associated metric calculation algorithms to aid researchers & analysts in evaluating AI performance.
- Refactored system's data access layer. **2X speedup** achieved for all database-intensive tasks on system.
- Added support for multiple groundtruth experiments on system that was built with single groundtruth experiment in mind. **Major iterative restructuring** of code, database schema and workflow **to ensure backward compatibility**.
- **Technologies**: Java, Spring Framework, JPA (Criteria + JPQL), HTML/CSS/JS, AngularJS, Jenkins, Marathon

Software Eng Intern (Full Stack)	ShopBack	May 2016 – Aug 2016

- Planned & implemented new features for flagship website, using React/Redux/Angular, PHP (Laravel & CodeIgniter)
- Develop website crawlers in Python from scratch. Ensured that system is **massively parallel** for fast & efficient crawling. System deployed and has crawled **over 10 million** product pricing & metadata from partner merchants

Student Assistant	CAMRI, NUS Business School	Aug 2015 – Present

- Redeveloped data walls software displaying financial information from Bloomberg API. Utilized Web Sockets with lightweight Python socket backend instead of poll-based system and **improved uptime** of system from 70% to 97%.
- Redevelop CAMRI's Retirement Calculator from scratch to utilise Vue with Flask backend. Reduced number of API calls to 1, irrespective of the number of calculations made by user.

Software Engineering Intern	Adiuva	Mar 2015 – Aug 2015

- Added major features to EventWiz, a B2C events marketplace, created in PHP using CodeIgniter framework.
- Rebuilt EventWiz platform from scratch, migrating it from PHP to Python (Django framework), in 1 month.

NATIONAL SERVICE

Hospital Medic	Singapore Civil Defence Force	12 Mar 2013 – 11 Mar 2015

- Developed Android app prototype, on own initiative, to replace a manual ambulance turnaround recording system

TECHNICAL SKILLS

C, C♯, PHP, Python, Java, HTML, JavaScript, SQL, LaTeX, Erlang, Django, Laravel, CodeIgniter, AngularJS

COMMUNITY SERVICE

- Assistant instructor at Saturday Kids. Taught Scratch/Python to kids from disadvantaged backgrounds.   (2017)
- Taught Expository Writing to high school students in the USP thINK Mentorship Programme   (2016)
- Volunteer Web Developer at DesignUp Asia   (Dec 2013 – Oct 2015)

NOTABLE RELATED WORK & ACHIEVEMENTS

- NUS Computing Club: system administrator & developer. Worked with CentOS, nginx, Python.   (2015 – Present)
- PowerPointLabs – a PowerPoint add-on written in C#   [**GitHub:** PowerPointLabs/PowerPointLabs] (2017)
    - Implemented PasteLab – enhanced paste functionality. Worked around limitations/constraints of Office SDK
- NUS Computing Club: Sole developer of game scoring system in Python [**GitHub:** NUSComputingDev/gfp] (2015)
- **Distinction** for NTU H3 Semiconductor Physics and Devices   (2013)
- Multiplayer Interactive Chat Community with C# Server & Flash frontend   (2010)
- Code Editor for GTA San Andreas Multiplayer developed in C#   [**GitHub:** SAMPCE/SAMPCE] (2009)