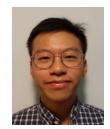
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Github: derpyplops
Website: jonathanng.dev



Personal Statement

My name is Jonathan Ng. I am a student in the National University of Singapore seeking a company where I can enjoy a culture of deep learning and understanding, where I can further develop my domain expertise in full-stack engineering, DevOps, and information security, and where I can grow as a person.

I like to optimize and fine-tune systems and processes, and in my code is no exception. My ability and passion for clean and efficient code are substantiated by my comprehensive knowledge of data structures and algorithms. In my previous internship in HydraX, I was tasked to build a data adapter that polled and parsed data from many APIs from a mixture of WebSockets and REST endpoints. With no documentation from the previous team and with minimal guidance, I wrote two components which were deployed in production within two weeks of joining HydraX. While reverse-engineering the current codebase with little documentation was a significant challenge, I learnt the value of good documentation, and of course, my skill in node.js grew more than it otherwise would.

In conjunction with my academic studies, I contribute to numerous extra-curricular projects in a volunteer capacity. For instance, I developed a web-based attendance system for my Residential College that scanned QR codes and offered a significant time-cost saving to College events. I also volunteer in my spare time in Effective Altruism (SG), the local chapter for a movement that aims to do the most good, given limited resources. I contribute as a core team member and have helped to organize conferences and meetups. Staying on top of these commitments is only made possible through crucial time management skills that I have developed over the years. This is challenging, but ultimately rewarding.

Now, I am eager to join a team that has a strong engineering culture that is directed, robust, and agile. I would love the opportunity to join a team that produces function, easy to read, performant and testable code. Previous professional experience has taught me, however, that strict adherence to good coding style and the best design patterns is not always practical. The adage that "done is better than perfect" comes to mind. When time permits, I take pride in producing elegant code, but also take note of the needs of deadlines under time pressure.

If you take me on to your team, you will find that I am a keen learner and am open to diverse and novel experiences. You will also find that I am an easy-going and amiable co-worker. I am certain that my passion for learning, together with my personable nature, will make me a great fit for your company.

Thank you for reading, and I hope to hear from you soon.

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National University of Singapore Bachelor of Computing (Honours) Information Security (Course details in Appendix A)	Singapore
 Anglo-Chinese School (Independent) 39 Points Total: Physics HL (7), Chemistry HL (6), Mathematics HL (7) Spanish AB (7), Business & Management (6), Language & Literature (5) 	Singapore
 HydraX Private Limited Software Engineering Intern HydraX is a startup whose primary product is Sigma, a multivenue trading platform for multiple asset classes. Back-End developer - Wrote, reviewed and tested code with ReactJS, Jest. Wrote and deployed several adapters connecting APIs of trading venues with logic component for Sigma, used by 1000 unique users. Built and deployed API documentation from scratch with AsciiDoc. International Baccalaureate 	Singapore
 Accenture Private Limited Technology Intern Wrote scripts to automate work processes with SAP systems in VBA. Wrote and quality checked of user guides for the final stage of UAT of project. HydraX is a startup whose primary product is Sigma, a multi-venue trading platform for multiple asset classes. 	Singapore
 Navy Recruitment Centre Career Consultant Operated the hotline, providing guidance to potential applicants to our military program, handled difficult cases and customers. Assisted Officers in with data processing and vetting military candidates. 	Singapore
 Effective Altruism NUS Chapter Lead (Founder) Effective Altruism is a global movement that asks how humanity can use its resources to help others the most. Conducted Publicity and stage-managed for EAGx, a conference exploring EA topics, including voluntourism, global poverty, and existential risk. Event attracted 200 participants. Organized book club readings and discussion groups for EA-aligned topics. College of Alice And Peter Tan (CAPT) Student Leader Founder of CAPTs_Lock, a student interest group exploring technology. Conducted market research on, and executed, workshops relevant to student interests (WebDev, Python, etc). Developed applications for College use, including a QR code registration system, QR-code inventory management system, and room allocation software. 	Singapore
	Bachelor of Computing (Honours) Information Security (Course details in Appendix A) Anglo-Chinese School (Independent) 9 Points Total: Physics HL (7), Chemistry HL (6), Mathematics HL (7) Spanish AB (7), Business & Management (6), Language & Literature (5) HydraX Private Limited Software Engineering Intern HydraX is a startup whose primary product is Sigma, a multivenue trading platform for multiple asset classes. Back-End developer - Wrote, reviewed and tested code with ReactJS, Jest. Wrote and deployed several adapters connecting APIs of trading venues with logic component for Sigma, used by 1000 unique users. Built and deployed API documentation from scratch with AsciiDoc. International Baccalaureate Accenture Private Limited Technology Intern Wrote scripts to automate work processes with SAP systems in VBA. Wrote and quality checked of user guides for the final stage of UAT of project. HydraX is a startup whose primary product is Sigma, a multi-venue trading platform for multiple asset classes. Navy Recruitment Centre Career Consultant Operated the hotline, providing guidance to potential applicants to our military program, handled difficult cases and customers. Assisted Officers in with data processing and vetting military candidates. Piffective Altruism NUS Chapter Lead (Founder) Effective Altruism is a global movement that asks how humanity can use its resources to help others the most. Conducted Publicity and stage-managed for EAGs, a conference exploring EA topics, including voluntourism, global poverty, and existential risk. Event attracted 200 participants. Organized book club readings and discussion groups for EA-aligned topics. College of Alice And Peter Tan (CAPT) Student Leader Founder of CAPTs_Lock, a student interest group exploring technology. Conducted market research on, and executed, workshops relevant to student interests (WebDev, Python, etc).

Skill Sets & Proficiency

Programming Python Proficient

Javascript Proficient
C++ Proficient
C Proficient
Java Familiar
Shell Familiar
HTML & CSS Familiar

Web Frameworks Jest Proficient

AsciiDoc Proficient
Android Developer Studio Familiar
React Familiar
Redux Familiar

Web HTML, CSS Proficient

JSP technology Familiar PHP Familiar

DatabasePostgres DBMSProficient

SQL Proficient

Programming Java Proficient

C Proficient C++ Proficient Shell Scripting Familiar

Security Penetration Testing Proficient

Network Security Proficient Web Security Proficient

Operating Systems Ubuntu/Kali/Solus Proficient

Language Proficiency

Spoken English – fluent; Spanish – Basic, Singaporean Sign Language – Basic,

Mandrin - Basic

Written English – fluent; Spanish – Basic

APPENDIX A

Degree: Bachelor of Computing (Honours) in Information Security

Cumulative Average Point: 4.03 / 5.00

Year	Level	Course Description	Grades
Aug – Nov 2017	Year 1/Semester 1	Programming Methodology	Α
		Discrete Structures	S
		Linear Algebra	S
		Calculus for Computing	S
		Power and Ideas	CS
Jan – May 2018	Year 1/Semester 2	Roots and Wings - Personal And Interpersonal Effectiveness 1.0	A+
		Programming Methodology	CS
		Data Structures and Algorithms	A-
		Computer Organisation	B-
		Quantitative Reasoning	A-
		IS Innovations in Organisations And Society	S
		Community Leadership	A-
Aug – Nov 2018	Year 2/Semester 1	Effective Communication for Computing Professionals	S
		Introduction to Operating Systems	B+
		Introduction to Information Security	В
		Software Engineering & Object-Oriented Programming	В
		Probability and Statistics	В
		Environment and Civil Society in Singapore	S
Jan – May 2019	Year 2/Semester 2	Introduction to Computer Networks	В
		Design and Analysis of Algorithms	В
		Computer Security	B+
		Life, The Universe, And Everything	A-
		Science Fiction and Empire	S
Aug – Nov 2019	Year 3/Semester 1	Penetration Testing	IP
		Computer Security Practice	IP
		Computer Networks Practice	IP
		Information Systems Leadership and Communication	IP
		Database Systems	IP

Notable Classes & Projects

With the fundamentals I've learnt with **Data Structures and Algorithms** and it's tougher cousin, **Design and Analysis of Algorithms**, I've developed deep understanding and appreciation of time and space complexity of different algorithms and have equipped me with intuition to understand when to use which data structure, and the tradeoffs in time and space.

I have honed my software engineering skills with **Software Engineering & Object-Oriented Programming**, which puts me in a great position, together with **Database Systems**, to manage both the frontend and the backend of a web application, giving me the flexibility to work on any part of your tech stack. As part of my Database Systems module, we were tasked to build a web application that polls a PostgreSQL server. I created a Kickstarter clone that tracks projects and donor funding.

NUS Grading Scale:

A+ & A (5.0); A- (4.5); B+ (4.0); B (3.5); B- (3.0); C+ (2.5); C (2.0); D+ (1.5); D (1.0); F (0)

S = Satisfactory; U = Unsatisfactory; CS = Completed Satisfactorily; CU = Completed Unsatisfactorily

EXE = Exempted; IC = Incomplete; IP = In Progress; W = Withdrawn