Ananta Shahane, M.Sc.

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Objective

With a Master's in C.S. from Universiteit Leiden and experience in iOS development and algorithm design, I'm skilled in C++, Python, Swift, and Golang. Eager to apply my proven ability to enhance algorithmic efficiency and my hands-on development experience, I'm looking to join a software engineering team to drive innovation and excellence.

Education

Universiteit Leiden, The Netherlands

Master of Science—Computer Science (GPA: 7.5/10)   2021-2023

Thesis: *A Corridor Model Evolutionary Algorithm, for Fast Converging Green Vehicle Routing Problem*

Coursework: Quantum Algorithms, Evolutionary & Combinatorial Algorithms, Multimedia Systems, Software Testing & Verification, Robotics, Modern Game AI, Computational Models & Semantics, Deep Learning, Embedded Systems.

Pune University, India

Bachelor of Engineering—Computer Engineering (Grade: 64%)   2014-2018

Thesis: *A Broker Model for Micro-Service Orchestration*

Coursework: Object Oriented Programming, Microprocessor Architecture, Operating Systems, Data Structure and Problem Solving, Computer Graphics, Digital Signal Processing.

Relevant Experiences

Fall 2023	**Research Thesis @Leiden Institute of Advanced Computer Science, under Prof. Y. Fan**
	Remodelled *genetic algorithm* for *green vehicle routing problem* accounting for customers' locality, and engineered *corridor model*. Reduced average AUC for 92 benchmarks of 500 iterations by 10%.
	`Evolutionary Algorithm	Swift	Python	Multi Objective Optimsation	NSGA-II`
Fall 2022	**Evolutionary Intelligence, Prof. Hao Wang (LIACS)**
	Designed algorithms for searching DL architecture for image detection; revealed the link between adjacency matrices and the crossover operator; improved convergence speed and stability.
	`Python	nasbench	Evolutionary Algorithm	Deep Learning	iOH Analyser`
2018-2022	**Self Employed: iOS Developer**
	Developed, published and supported a cross platform app 'Today Productivity' on iOS, iPadOS and macOS, designed to assist users plan and execute their days, with widgets and iCloud support.
	`Xcode	Swift	SwiftUI	RDBMS	CloudKit	WidgetKit	Publishing	Web Development`
2017-2018	**Trusting Social: Gilmour Proxy**
	Engineered a robust proxy for the Gilmour micro-service broker system, facilitating universal access across programming languages via HTTPS. It efficiently manages a vast array of micro-services.
	`Golang	Micro-Services	Docker	Prometheus	Linux	macOS	HTTP Protocol`

Skills

Frameworks	Minecraft(gdmc), json, HTTPS Protocol, SwiftUI, Qt, Cirq, Openfermion, Scikit-learn, Keras.
Languages	C++, C, Swift, Python, Golang, Markdown.

Miscellaneous

2013-2014	**Certificate of Merit; Physics** (Centre Point School, India)
	Awarded for Excellence in Physics by the British Council International School Awards (1st/120).
2019	**Fundamentals of Red Hat Enterprise Linux** (edX)
	Awarded for 100% completion of course, with 8 assignments, 6 weeks.
2017	**Networking and Security in iOS Applications** (University of California, Irvine via Coursera)
	Awarded for 98% grade of course, spanning 4 months and 16 assignments.
2010	**National Cyber Olympiad** Scored #1,896 (91 percentile) in National Olympiad.
Conferences	Free Open Source Software Meet (2018), try! Swift Banglore (2017), GopherCon 2018, Kernel Meetup 2017-2018, Google Meetup 2018, Quantum Games (2023), Quantum Amsterdam (2023).
Scores	**ToEFL**: 101/120 **GRE**: 316/340 (Quant: 167, Verbal: 149), **Hackerrank**: 78% solved.
Activities	**Biking** (1800^+ km); **Gaming**: Tekken 7 (Finished 17th of 107 in national DOJO event); **Music**: Jazz; **Hobby**: PC Building, **Trekking** 180km in 5 days to Pindhari Glacier.

References available on request.