

Ananta Shahane, M.Sc.

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🌐 Ananta Shahane

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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

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

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 Optimisation | NSGA-II
- Fall 2022 ■ **Evolutionary Intelligence, Prof. Hao Wang (LIACS)**
Designed genetic algorithm for searching Deep Learning Architecture for image detection; revealed the link between adjacency matrices and the crossover operator, which improved both convergence speed and stability of the algorithm.
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 Bangalore (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.

Miscellaneous (continued)

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.