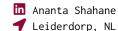
Ananta Shahane, M.Sc.

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Ananta Shahane

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Zoeken Jaar; 11/2024





Objective

As a software engineer with a **Master's degree** in **Computer Science** from **Leiden University**, I bring proficiency in **C/C++**, **Swift**, **Python**, and **Golang**. With a strong foundation in Maths, Physics, and CS, my goal is to apply this knowledge to solve complex problems. I am seeking a **software engineering** role in the industrial and service sectors.

Education

Universiteit Leiden, The Netherlands

Master of Science—Computer Science | Grade: 7.5/10

2021-2023

Thesis: A Corridor Model Evolutionary Algorithm, for Fast Converging Green Vehicle Routing Problem *Courses*: 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: 64/100

2014-2018

Thesis: A Broker Model for Micro-Service Orchestration

Courses: OOP, microprocessor architecture, OS, data structure and algorithms, computer graphics, DSP.

Relevant Experiences

Fall 2023 Research Assistant, Leiden Institute of Advanced Computer Science

Engineered *corridor model* into *genetic algorithm* for *green vehicle routing problem*. This repair operator helped improve convergence performance by 10%.

Evolutionary Algorithm | Swift | Python | Multi Objective Opt. | NSGA-II | Automation

Fall 2022 Research Assistant, Evolutionary Intelligence Lab

Designed genetic algorithm for searching DL Architecture for image detection; discovered the link between adjacency matrices and the crossover operator, improving convergence speed and stability.

Python | nasbench | Evolutionary Algorithm | Deep Learning | iOH Analyser

2018-2022 Apple Platforms Developer (self employed)

Developed, published and supported a cross platform app Today Productivity on iOS, iPadOS and macOS. Assisted users to plan and execute their days, using latest *Apple Technologies*.

Xcode | Swift | SwiftUI | RDBMS | CloudKit | WidgetKit | C++ | Web Development

2017-2018 Software Engineering Intern, Trusting Social

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

gdmc, json, HTTPS Protocol, SwiftUI, Qt, Cirq, Openfermion, Scikit-learn, Keras, Docker, SQL.

Languages

C++, C, Swift, Python, Golang, Markdown, bash.

OS macOS, Linux–Fedora, Asahi Linux, Ubuntu, RHEL (RHo66x Certification).

Miscellaneous

2013-2014

Certificate of Merit; Physics (Centre Point School, India)

Awarded for Excellence in Physics by the British Council International School Awards ($1^{st}/120$).

2019

Fundamentals of Red Hat Enterprise Linux (edX)

Awarded for 100% completion of course, with 8 assignments, 6 weeks.

Networking and Security in iOS Applications (University of California, Irvine via Coursera)
Awarded for 98% grade of course, spanning 4 months and 16 assignments.

National Cyber Olympiad Scored #1,896 (91 percentile) in National Olympiad.

Conferences

2010

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: 169 problems 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.