

Ananta Shahane, M.Sc.

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📅 Zoeken Jaar; 11/2024

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📍 Leiderdorp, NL



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 (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:** 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.