ANANTA AH Λ



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Leiderdorp

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Zoeken Jaar; 11/2024

M.S. Computer Science

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

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

& macOS, Linux–Fedora, Asahi Linux, Ubuntu, RHEL (RH066x Certification)

RESEARCH & RELEVANT PROJECTS

Fall 2023 masters thesis	Research ThesisY. Fan, LIACSEngineered geometrical perspective to solve green vehicle routing problem using Evolutionary computation.Introduced initialiser that produces population 30% closer to optimal solution compared to industry standard.Improved convergence speed by 10%, while reducing hyper-parameter count from 10-12 to only 2-3.Research published in ACM Journal by GECCO 2024.Evolutionary Algorithms / Swift / Python / 00P / M00 / NSGA-II
Spring 2023	Experiment: Embedded SystemsDr. T.P. StefanovProgrammed and optimised software for Xilinx FPGA to perform real-time edge detection.Used only 66% of the expected channels in KPN leading to 28% performance lift.Earned recognition as the top performing software among peers.Sobel / C / Daedalus / FPGA Programming
Fall 2022	Research Assistant, Evolutionary Intelligence LabDr. Hao WangDesigned genetic algorithm for searching DL Architecture for image detection.Discovered the link between adjacency matrices and the crossover operator.Improved convergence speed and stability towards optimal solution.Python / nasbench / Evolutionary Algorithm / Deep Learning / iOH Analyser
Fall 2022	Experiment: Robotics Dr. E.M. Bakker Utilised time averaged K-Nearest Neighbors to discriminate between walls and furniture. Helped navigate the robot between rooms easily by reducing resource utilisation on perception. Python / Machine Learning / CoppeliaSim / Trignometry Trignometry
Spring 2022	Experiment: Quantum Algorithms Dr. Vedran Dunjko (LIACS) Explored Randomised Measurement Toolbox or Classical shadows and its diverse applications. Validated a section of the research paper by implementing the algorithm. Python / cirq / openfermion / numpy
2018-2022	Apple Platforms Developer Freelance 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 / WebDev
2017-2018	Trusting Social Engineered a robust proxy for the Gilmour micro-service broker system, facilitating universal access across programming languages via HTTPS. That efficiently managed a vast array of micro-services. Golang / Micro-Services / Docker / Prometheus / Graffana / Google Advisor / HTTP / json
EDUCATION	
2021 - 2023	Masters of ScienceLeiden University, The NetherlandsComputer ScienceFoundations of Computing7.50A Corridor Model Evolutionary Algorithm for Fast Converging Green Vehicle Routing Problem.8.33Courses: Quantum algorithms, evolutionary & combinatorial algorithms, multimedia systems, software test-ing & verification, robotics, modern game AI, computational models & semantics, deep learning, embeddedsystems.Stateman
2014 - 2018	Bachelor of EngineeringPune University, IndiaComputer Engineering64%Thesis: A Scalable Broker Model for Micro-Service Orchestration.90%

Thesis: A Scalable Broker Model for Micro-Service Orchestration. Courses: OOP, microprocessor architecture, OS, data structure and algorithms, computer graphics, DSP.

MISCELLANEOU	JS
2017-2024	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), GECCO 2024 Melbourne Australia*.
2019	Fundamentals of Red Hat Enterprise Linux (RH066x)edXAwarded for 100% completion of course, with 8 assignments, 6 weeks.edX
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.
2013-2014	$\begin{array}{llllllllllllllllllllllllllllllllllll$
2010	National Cyber OlympiadNational Olympiad Foundation, IndiaScored #1,896 (91 percentile) in National Olympiad.Scored #1,896 (91 percentile)
Achievements	Scores ToEFL: 101/120 GRE: 316/340 (Quant: 167, Verbal: 149) Hackerrank: 5 ★ C++ Problem Solving Python / 4 ★ C
LANGUAGES	ACTIVITIES

English - proficient Marathi - native Hindi - native Dutch - learning

Biking (3400⁺ km); **Gaming**: Tekken 7 (Finished 17th of 107 in national DOJO event); **Music**: Jazz; **Trekking** 180km in 5 days to Pindhari Glacier. **Olympiads**: Consistently top 8 performing students in school in National Olympiads. **Intellectual**: Passionate about Physics and Mathematics; **Hobby**: PC Building.