

HARISH NAVNIT

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EDUCATION

Singapore University of Technology and Design

2023 - 2024 | 4.2/5.0

Master of Science in Technology and Design (Cybersecurity)

Top of batch

Amrita School of Engineering

2012 - 2016 | 3.6/5.0

Bachelor of Technology in Computer Science and Engineering

EXPERIENCE

Imperial Research and Innovation | Software Research Engineer

Apr. 2025 – Present

Imperial College London's interdisciplinary research centre in NUS, Singapore.

- Engineering AI-first solutions for novel research approaches in the field of **Cybersecurity & Healthcare**.

Dialpad | Software Engineer

Aug. 2021 – Sept. 2023

- Developed strategic microservice integrations in **Python & Vue.js**, deployed on the Google Cloud Platform(**GCP**).
- Delivered \$700k additional revenue/Q across Salesforce, Hubspot, Zendesk & Servicenow integrations.
- Implemented bespoke customer requests & provided rotational on-call support to reduce churn significantly.
- Drove engineering productivity efforts within the integrations team.
 - * Enabling self-hosted integrations on the Dialpad platform.
 - * Set up behaviour driven tests infrastructure for backend components.
 - * Transitioned **CI/CD** workflows to Github Actions and automated weekly beta releases.

ColorTokens | Member of technical staff

Jan. 2020 – Aug. 2021

- Implemented the architectural re-design of XShield, an enterprise **micro-segmentation** platform, by migrating from a monolith to a **micro-service** based design.
- Prototyped, built & maintained **Python/Flask** micro-services for discovery and real-time monitoring of customer assets on public clouds, viz **AWS** and **Azure**, forming a robust *Cloud Security Posture Management(CSPM)* offering. Further developed,
 - * an interval based polling mechanism for asset discovery.
 - * a real-time event ingestion pipeline for platform events using serverless(**AWS Lambda**) functions and custom webhooks.
 - * Infrastructure-as-Code(**IaC**) polices using Cloud Custodian to facilitate policy enforcement & compliance.

Anapi | Senior Software Engineer

Aug. 2018 – Sept. 2019

- Joined as the first engineer, responsible for maintaining and releasing all software offerings.
- Responsible for hiring, onboarding and mentoring junior engineers.
- Designed a robust digital insurance **API** using **Node.js** deployed via **Docker** builds to **AWS**, to help online businesses enable on-demand protection through appropriate insurance products.
- Architected bulk policy purchase and claims ingestion pipelines, ensuring **data sanitization** for regulatory and auditory compliance.

nference | Software Engineer

Mar. 2017 – Jun. 2018

- Integrated software components of a medical whole slide scanning device, viz. a **C++** image processing pipeline, **PyQt** GUI for hardware interface and **Django** cloud service.
- Maintained a **Python** cloud interface to publish the derived analytics for a pathology slide scan.

INTERNSHIPS

Google Summer of Code | tinyc.cc/gsoc-16

Jun. 2016 - Sept. 2016

- Reworked KDE Plasma's legacy public transport applet written in **C++/Qt** to provide a convergent UI across devices of varying form factors.

Google Summer of Code | tinyc.cc/gsoc-15

Jun. 2015 - Sept. 2015

- Ported Kopete, a multi-protocol instant messaging client, from **C++/Qt** (Qt4) to the newer **QtQuick 2.0** based KDE frameworks 5 API.

PROJECTS

OpenCtx | openctx.org

LLM, Typescript, VSCode extension

- Implemented an *LLM* context provider for [Sourcegraph Cody](#), which allows it to view [Sengrep](#) findings for a project and respond to user queries appropriately.
- Demo: youtu.be/Cm_9QGrbMdA

Mazure | github.com/tinvaan/mazure

Azure, Mocks, Python, Testing

- A stateful and dynamic *Python* library that enables easy mocking of Azure API calls in unit tests.
- Supports *function decorators* and *context manager* modes of usage.
- Demo: youtu.be/WCLCNlima0M

Postag | github.com/tinvaan/postag

AIS, AWS, NMEA, Python

- Generates a deployable AWS lambda function for Satellite AIS message tagging.

UAV Mapper | github.com/tinvaan/qtquick-mapview

C++/Qt, QML, CMake

- Simulates a linear interpolated flight path for a UAV from available flight data on a *QML* mapview.

Drone CI SDK | github.com/tinvaan/drone-python

Automation, CI/CD, Python

- Python client for the [Drone CI](#) public API.

Dialpad Python SDK | github.com/dialpad/dialpad-python-sdk

Python, Swagger, OpenAPI

- Ported the project to Python3 & bumped test coverage up to 100%.

CONFERENCES AND TECHNICAL PRESENTATIONS

conf.kde.in | tiny.cc/kde-cmake

IIT Guwahati, 2020

Hosted a workshop on "*Introduction to CMake*"

FOSSASIA summit | youtu.be/Df9hFzZl7Tc

Singapore, 2018

Delivered a presentation on "*Convergent applications using the Kirigami UI framework*" introducing a modern C++/Qt framework for responsive and cross-device UI designs.

KDE developer sprints

Switzerland, 2015 - 2017

- Invited to participate in the Randa Meetings | randa-meetings.ch
- Invited to the inaugural WikiToLearn & KDE developer's sprint held at the IdeaSquare lab at CERN

SKILLS

Languages: C, C++, C++/Qt, QML, Python, HTML, CSS, JavaScript, TypeScript, , Bash, Shell Scripting

Frameworks: Flask, Django, React, Vue, Node.js, Express.js, QtQuick, Bootstrap, Bulma, Tailwind, Scikit-learn

Databases: MySQL, PostgreSQL, Sqlite, MongoDB, AWS RDS, Google Cloud Datastore

Tools: Git, GitHub, Gitlab, Bitbucket, Unix Shell, VS Code, Datadog, Sentry, Wireshark, Tableau, Weka

Technologies: Git, SVN, Docker, Kubernetes, Vagrant, Supervised Learning, Decision Tree Classifiers