

# HARISH NAVNIT

☎ +65 (8679) 1807 ✉ [harishnavnit@gmail.com](mailto:harishnavnit@gmail.com) 🏠 [tinvaan.me](http://tinvaan.me) 🌐 [github.com/tinvaan](https://github.com/tinvaan) 🔗 [linkedin.com/in/tinvaan](https://linkedin.com/in/tinvaan)

## EDUCATION

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### Singapore University of Technology and Design

Master of Science in Technology and Design (Cybersecurity)

2023 - 2024 | 4.2/5.0

Top of batch

### Amrita School of Engineering

Bachelor of Technology in Computer Science and Engineering

2012 - 2016 | 3.6/5.0

## EXPERIENCE

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### Imperial Global Singapore @ NUS | Software Research Engineer

Apr. 2025 – Present

### 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

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### Google Summer of Code | [tinyc.cc/gsoc-16](https://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](https://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

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### OpenCtx | [openctx.org](https://openctx.org)

*LLM, Typescript, VSCode extension*

- Implemented an *LLM* context provider for [Sourcegraph Cody](#), which allows it to view [Semgrep](#) findings for a project and respond to user queries appropriately.
- Demo: [youtu.be/Cm.9QGrbMdA](https://youtu.be/Cm.9QGrbMdA)

### Mazure | [github.com/tinvaan/mazure](https://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](https://youtu.be/WCLCNlima0M)

### Postag | [github.com/tinvaan/postag](https://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](https://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](https://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](https://github.com/dialpad/dialpad-python-sdk)

*Python, Swagger, OpenAPI*

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

## CONFERENCES AND TECHNICAL PRESENTATIONS

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### conf.kde.in | [tiny.cc/kde-cmake](https://tiny.cc/kde-cmake)

*IIT Guwahati, 2020*

Hosted a workshop on "*Introduction to CMake*"

### FOSSASIA summit | [youtu.be/Df9hFzL7Tc](https://youtu.be/Df9hFzL7Tc)

*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](https://randa-meetings.ch)
- Invited to the inaugural WikiToLearn & KDE developer's sprint held at the IdeaSquare lab at CERN

## SKILLS

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**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