

# Silesh Ganesh

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## Professional Summary

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A **full stack developer**, holding an **MTech from BITS Pilani**, with **over 5 years of experience** in Full Stack Development, **specializing in web and mobile applications**. Worked with major **Finance and Wealth management** clients on applications and web-components that see **hundreds of thousands of hits per day**. Firefox Addon developer maintaining an addon that sees over **200 downloads a month** (and rising). Maintain multiple demos on codepen that have seen an average of **over 8000 views**. Worked on multiple passion and academic projects, including a fine tuned local lecture summarizer that **runs entirely offline**. A team player who lives and breathes code.

## SKILLS

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**ReactJS; NextJS; React Native; .NET Core Web API; NodeJS; StencilJS; Angular 14+; RxJS; Python; AWS Cloud; Azure Cloud; BASH scripting; Powershell Scripting; Android Development; C; JAVA; Rust; Bamboo Devops; Github; PostGRESql**

## EDUCATION

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**Birla Institute of Science and Technology, Pilani**

MTech, Software Systems

**Jain University, Bengaluru**

Bachelor's in Computer Applications, Information Security and Mobile Application Development

- Gold medalist and Rank Holder
- Participated in the NASA SpaceApps 2020 Hackathon

## WORK EXPERIENCE

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**Wipro Ltd. - Top-5 Finance and Wealth Management Client**

Senior Project Engineer

**Sept. 2020 – Present**

Bengaluru, India

- Full stack developer, working on **Retail Client Messaging** for a Top-5 US based Finance and Wealth Management Client
- Tech Stack: **Angular 14, .NET 6-8, StencilJS, Bamboo, Github, NodeJS, Rust, ReactJS, Linux, Azure, Snowflake.**
- **Achievements:**
  - Allowed clients to send messages from any page in the client center by decoupling components from the Single Page Message Center application
    - Created **reusable components using StencilJS** for the Message Detail Modal and Document Uploader that can be consumed by other applications.
    - Wrote a custom webpack script to extract functions from AWS's JS SDK, **significantly lowering** the Document Uploader bundle's size by about **3x**
    - Wrote pipelines in Bamboo to allow **automated versioning for all shared components**.
  - Allowed clients to see a file's upload status before their message is sent
    - A client could only see a file's scan status after the message was sent, leading to multiple back

- and forths between them and company reps in case of a corrupted/password protected file
- Created and integrated an API that returns a file's status by **polling using an exponential backout system.**
- o Ported the Message Center SPA from Angular 9 to Angular 14
  - Upgraded to Angular v14 (The most recent version at the time), through iterative upgrades
  - Upgraded the file upload strategy to use **AWS's Multipart upload**
  - **Decreased page load times by 5x**, allowed individual files up to 25MB to be uploaded **2x faster**, increased application security
- o Helped contribute to an org-wide effort to migrate from Bitbucket to Github
  - Moved all message center related application, and API repositories from Bitbucket to Github, including all CI pipelines from Bamboo to GHActions.
- o Helped develop a POC for a DNS based website filter as a part of Wipro's TopGear
  - Wrote and refined startup scripts in **BASH** for an autoscaler involved in the orchestration of **20 VMs**.
  - Fixed various bugs with the Node API and React frontend.

## Urbanstop Ltd.

Jr. Full Stack Developer

Dec. 2019 – Sept. 2020

Bengaluru, India

- Jr. Full stack developer, helping develop performant and functional mobile applications for startups
- Tech Stack: **React Native, NodeJS, Java**
- **Achievements:**
  - o Helped develop and integrate mobile applications including:
    - OpenJamm: A gig application for musicians
    - Medpiper: A Job portal for Doctors and others in the Medical field
    - Plumm: A Tiktok based clone for farmers and others in the agriculture industry
    - Pwip: A rice trading application to connect rice merchants and growers

## PASSION PROJECTS

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- Tech Stack: **ReactJS, NextJS, AWS Cloud, React Native, PHP**
- Helped migrate a multi store ecommerce website from shared hosting to **AWS**, allowing for scalability and complete control over systems.
- Helped set up **load-balanced** WordPress stores that handled up to **100 orders a minute**.
- Wrote plugins augmenting WooCommerce, allowing **automatic coupon redemption on checkout**
- Programmed the frontend for an event management system, complete with table management and staff specific applications.
- Wrote and continue to maintain a firefox addon (Remove Google AI Overview) that sees over **100 downloads a month**.
- Wrote multiple frontend library usage snippets on CodePen, that have an average of **over 8000 views**.

## ACADEMIC PROJECTS

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- Tech Stack: **React Native, NextJS, Python**
- **Local Lecture Summarization using a Fine Tuned and Quantized Small Language Model**

- o A POC implementing a **quantized** small language model (Phi3.5) **fine tuned** to provide lecture summaries.
  - o Runs **entirely locally without an internet connection**, with an **on-prem cloud deployment** solution.
  - o Quantized using **Llama.cpp**
  - o Supports a context of up to **8000 characters**, with more supported via **chunking**.
  - o **Maintains data confidentiality**, and provides credence to the fact that fine-tuned small language models running on device can be as efficient as, if not better, than a general purpose large language model
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- **NFC system for Inventory Management**
    - o A POC implementing an NFC based inventory management.
    - o Products tagged with NFC chips that are scanned using an NFC enabled phone
    - o Product is tracked through every logistical stage
    - o Helps maintain product authenticity, and automates inventory management

## LINKS

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- **Github:** <https://github.com/ooblek>
- **Linkedin:** [linkedin.com/in/silesh-ganesh](https://www.linkedin.com/in/silesh-ganesh)
- **CodePen:** <https://codepen.io/ooblek>
- **Portfolio website:** <https://ooblek.github.io>