

# P K NAVIN SHRINIVAS

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## EDUCATION

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**B.tech in Computer Science Engineering**, PES University — CGPA: 8.79 May 2024  
4 time MRD scholarship (top 20% in batch)

## WORK HISTORY

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Technology analyst Summer intern at **Morgan Stanley** May 2023 - July 2023

- Worked with **Apache solr** and **lucene** to build a fast and responsive data dashboard, along with **API for an internal playground**. Secured by auth systems like siteminder and SPENGO.
- Was responsible for deployments to QA and writing unit tests.

Technology Intern at **Target Corporation (US Retail)**. January 2024 - Present

- Worked with Elasticsearch, postgres, springboot, internal design systems and React.
- **Delivered a new platform for the management of indirect items** and their attributes conforming with internally used systems and an **MFE architecture**

SWE-1 at **Morgan Stanley** August 2024 - Present

- Underwent the Global TAP training.

## PUBLICATIONS AND RESEARCH

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- ICBDA2024 - Presented a paper on **Techniques used in time series databases and their internals** and won the **best presenters award!** [publication](#) — [conference](#)

## FOSS CONTRIBUTIONS

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- **Hyperswitch** — **Juspay**: fix a pagination bug causing issues in fronted and more [PR Link](#) — [PR Link 2](#)
- Kanidm — restrict Unix PW binds on LDAP [PR Link](#)
- **Jaeger (CNCF graduated)** — Allow uploading of OTLP traces (new-feature) [UI PR](#) — [Backend PR](#)

## PROJECTS

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**GRDNS** Golang, dnperf, redis, bash, docker — **A Concurrent DNS caching server** [GitHub](#)

- Created a DNS caching server program to accomplish fast resolve times and high availability.
- Uses Redis and in-memory key-value pairs that increase resolve times by many folds.
- Utilises fastdns and UDP libraries for parsing DNS packets and network.

**sapling** Rust, Linux, SSG, markdown, jinja, Unix — **A static site generator from scratch** [GitHub](#)

- An in-house built alternative of 11ty!
- A static site generator, written entirely in rust.
- Implemented near real-time live reload helpful for dev environments.
- Deep data merge with 2 types of indices.

**PerfTest** C/C++, Vcpkg, Pthreads — **A Unix stress tester and performance tester** [GitHub](#)

- Created performance/stress stresses to make systems testing easier.
- Uses libraries found natively \*NIX systems.
- Utilises pthreads library for multi-threading.

## COMMUNITY ACTIVITIES AND TALK

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- **Fostered open source** by organising HackNight 3.0 (A spin-off of hacktober fest). Also presented at Rust India and FOSSUnited.
- Provided a stepping stone for beginners into open source by conducting a **git workshop** as part of ACM PESUECC. Also Conducted unique **workshop on topics on Concurrency, Linux and Rust** as part of HackerSpace PESUECC
- Gave a talk on PupBin (Self hosted PasteBin) and **ORMs** in Rust as the **Rust Bangalore** circuit.
- held leadership position as **mentor/tech team lead** and Hackerspace PESUECC and served as secretary at ACM PESUECC