

# KINSHUK PHALKE

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## Education

### Georgia Institute of Technology

August 2024 - December 2025

*Masters of Science in Computer Science, Specialization in Machine Learning*

Atlanta, Georgia

### Georgia Institute of Technology

August 2021 - May 2024

*Bachelor of Science in Computer Science, GPA: 4.0*

Atlanta, Georgia

- **Concentration:** System and Architecture, Intelligence
- **Clubs:** President dependently-typed (Programming Languages Club)
- **Awards:** GT Intern Student of the Year 2024

## Experience

### Meta

May 2025 – August 2025

*Software Engineering Intern*

Menlo Park, California

- Designed and launched a new feature enabling users to replace reel audio with copyright-free tracks, driving ad creation.
- Built a video and audio editor with real-time preview and audio track selection streamlining content editing.
- Developed end-to-end test suites and led engagement experiments to assess interactions on new experience.

### NCR Voyix

May 2024 – August 2024

*Software Engineering Intern*

Atlanta, Georgia

- Designed a deployable Electron.js testing bench that allows testing on different conditions without physical hardware.
- Integrated with deployed VNC and XServer services allowing headed end-to-end tests to run on production.
- Automated deployment and testing via Feature Flag leading to reduction in time required for testing and setup by 10x.

### NCR Corporation

May 2023 – August 2023

*Software Engineering Intern Team Lead*

Atlanta, Georgia

- Lead a team of 5 interns in designing an end-to-end organization generation micro-service in Python, for SIT testing.
- Designed core logic in catalog generation from dataset, store location randomization and organization provisioning.
- Trained a NER model to recognize brands from products and a transformer model to generate product descriptions.
- Deployed API on Google Kubernetes Engine and designed a CI/CD pipeline to test and publish cluster.

### Georgia Tech High Performance Architecture Lab

Jan 2023 – May 2024

*Undergraduate Research Assistant*

Atlanta, Georgia

- Developing hybrid SSD-GPU architectures and scheduling strategies to maximize bandwidth and performance in GPUs.
- Developed an SSD Scheduling Algorithm that led to around a percentage increase in throughput and IOPS in comparison with existing algorithms.
- Published Thesis: *Maximizing SSD Bandwidth Efficiency Through In-Storage GPU Integration*.

### NCR Corporation

May 2022 – August 2022

*Software Engineer Intern*

Atlanta, Georgia

- Developed a shopping cart micro service in Go Fiber deployed onto GCP to enable carting on PoS devices and websites.
- Designed core logic in CRUD operations of cart and service integration into NCR's BSP layer for related taxes, prices, store locations, promotions, returns and item attributes information and operations.
- Architected a CI/CD pipeline to run testing suite, verify and publish deployments, publish artifacts onto GCP.
- Automated management of environment in production, Kubernetes cluster, pods, deployment and CA certificates.

## Projects

### DeusCL

*Rust, Common Lisp, Yew Framework*

- Developed a memory-safe REPL in Rust using a handwritten recursive descent parser and a visitor pattern evaluator.
- Implemented basic type inference, type checking, error handling system, lexically scoped garbage collector and a dynamic evaluation of functional environment and parameters.
- Designed a frontend in Yew Framework in Rust to enable users to use a web based simulation of REPL.

### Publixmon

*MongoDB, Express.JS, React Native, Node.JS, Flask, Node.js*

- Developed a Web3 mobile app in React Native allowing users to play NFT trading game to boost retail engagement.
- Integrated with the NCR BSP layer for order, catalog, inventory details and generate an NFT based on user history.
- Tested mining NFTs on the Ganache Blockchain via a node.js server to facilitate Smart Contracts from the App.
- Project won the first place at the NCR API Challenge at HackGT 8.

## Technical Skills

**Languages:** Python, C++, Go, Rust, C, TypeScript, JavaScript, Java, C#

**Frameworks:** ReactJS, Next.JS, Astro, Node.js, Express.js, React Native

**Machine Learning:** Tensorflow, PyTorch, NumPy, Scikit-learn, Matplotlib, Pandas, Keras, NLTK

**Technologies:** Git, Linux, Docker, Postman, L<sup>A</sup>T<sub>E</sub>X, MongoDB, Redis, Kubernetes, GCP, AWS, Web3