

Hayagreev Dilip

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EDUCATION

Purdue University, West Lafayette, IN — GPA: 4.0 (Dean's List)

Aug 2022 - May 2026

B.S. in Computer Science w/ Honors | B.S. in Mathematics

- Concentrations: Systems Programming, Database and Information Systems, Algorithmic Foundations
- Coursework: Analysis of Algorithms, Data Structures & Algorithms, Relational Database Systems, Compilers, Systems Programming, Data Mining and Machine Learning, Computer Security, Programming Languages
- Teaching Assistant: Analysis of Algorithms (Fall 2024), Programming in C (Spring 2024)

Cupertino High School (CHS) – Cupertino, CA — GPA: 4.0

Aug 2018 - Jun 2022

High School Diploma

RELEVANT SKILLS

Languages : C, Java, Go, Python, React Native, HTML, Javascript, UNIX Shell, Assembly Language (x86)

Technologies : GitHub, VS Code, Eclipse, LaTeX, Kubernetes, Docker

Cisco, Software Engineering Intern, San Jose, CA

May 2024 – Aug 2024

- Added default, standardized location tag to all field programmable device (FPD) traces to automate of tasks
- Exported traces to Splunk, created apps to analyze FPD traces (focusing on latency and memory analysis) saving several hours of manual work per release. Configured streaming of syslogs to Splunk in real time
- Created website to document step-by-step process of analyzing traces with Splunk; shared knowledge through demos

Shoreline.io [acquired by Nvidia], Software Engineering Intern, Redwood City, CA

May 2023 – July 2023

Shoreline.io provides real-time automation and control for cloud operations. Operators use Shoreline.io for debugging and automating runbooks. As a summer intern, I

- Added 30+ metrics to monitor Shoreline backend, making it easier for customers to identify & debug problems
- Implemented Open Telemetry standards. Configured Grafana Cloud, and Shoreline Notebooks for visualizing trends.
- Deployed my code to production in \$1M+ contracts with customers like Confluent
- Worked with Go, Elixir, Python, Kubernetes (daemonsets, statefulsets, configmaps, service accounts), & Docker

Flutter Development Club, Software Engineer, West Lafayette, IN

May 2022 – Dec 2022

- Created an app to take and edit photos, and save those edited photos to the photo gallery
- Enhanced with features to add emojis, change contrast/hue/colorization of images, crop, rotate, add and format text

LaunchCoders, Curriculum Director, Palo Alto, CA

Aug 2020 – Nov 2021

- Managed a team of high schoolers to develop Python/Scratch courses with code snippets for beginners.
- Led students through Scratch projects, and taught fundamental programming concepts prior to managing the curriculum

SpotIdol, Full Stack Web Intern, Cupertino, CA

May 2020 – July 2020

- Refactored code for competitions hosting software written in HTML, JS, CSS, using Angular as the frontend framework
- Redesigned front-end to increase the aesthetics and usability

PROJECTS

Interactive Marketplace – Java, Swing

- Worked with three others to create a two sided marketplace where sellers can post deals on products, limit the quantity of items sold to a particular buyer, delete products, etc. and buyers can purchase products, view their purchase history, etc.
- Led architecture, client-server implementation, concurrency, and listing/checkout flows

Summer Science Program (Astrophysics Track) – Python, Latex, AstroImageJ, VPython, Matplotlib

- Co-authored a Python program & paper to determine the orbital path of an asteroid (1998 OH) using Method of Gauss
- Used orbital integrations to predict asteroid's fate and Monte Carlo simulations to obtain deviations of orbital elements

Messaging App Developer – Swift, Firebase

- Co-authored and published a mobile app that allows students to interact with one another, post, and answer question

Bird Classifier – React Native, Keras, Tensorflow Serving, Firebase

- Created Transfer Learning Model (~96% accuracy), and served model using TF Serving
- Created UI with React Native, obtained predictions using RESTful API, stored data in Firebase Realtime Database

Linux Shell Program – C++, Yacc, Lex

- Created custom shell resembling the bash shell
- Features include: Ctrl C handling, Zombie Elimination, Builtin Functions, Env. variable expansion, subshell usage, wildcard expansion, tilde expansion, if/while/for scripting functionality, .shellrc handling, etc.