

# Swastik Agarwala

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## EDUCATION

### PURDUE UNIVERSITY

BS IN COMPUTER SCIENCE

MINORS: ECON & MATH

Cumulative GPA: 3.94 / 4.0

Expected Grad.: May 2026

### DELHI PUBLIC SCHOOL

#### VASANT KUNJ

CBSE BOARD

12th grade result: 97%

## SKILLS

### LANGUAGES

JavaScript • TypeScript •  
Dart • Java • Python • C •  
C++ • Bash • R

### TECHNOLOGIES

React • Redux • HTML • CSS  
• JQuery • NextJS • DevOps  
• AWS • Flutter • Firebase •  
MySQL • NodeJS • Figma •  
ExpressJS • Android Studio

## COURSEWORK

### ONGOING

Analyses of Algorithms  
Systems Programming  
Competitive Programming

### COMPLETED

Data Structures  
Algorithms  
Computer Architecture  
Object Oriented Prog.  
Foundations of Comp. Sci.  
Programming in C  
Elementary Linear Algebra  
Multivariate Calculus  
Micro/Macroeconomics

## ACHIEVEMENTS

### INDIAN IOI CAMP 2021

Indian version of USACO Camp

### DEAN'S LIST

Fall 2022 - Fall 2023

### GOLD MEDAL FOR ACADEMICS

Awarded By High School for 7  
years of consecutive academic  
excellence

## EXPERIENCE

### JYOTI PORTFOLIO PVT. LTD. | SOFTWARE ENGINEERING INTERN

Jun 2023 – Jul 2023

- Developed an **API client** for the **Extranet Rest API** (NSE of India) in **Java (Maven)**
- Implemented **AES encryption** for user passwords and ensured secure **session token-handling**
- Automated client-required file downloads from the API, saving **3+ hours** of manual work **daily**

### PURDUE UNIVERSITY | UNDERGRADUATE TEACHING ASSISTANT

Jan 2024 – Current

- Helped students in labs/office hours in **C programming** and **Discrete Math** courses.
- Proctored exams, answered student queries, graded homeworks, etc.

### COGMAC TECHNOLOGIES PVT. LTD. | SOFTWARE ENGINEERING INTERN

May 2023 – Jun 2023

- Developed a **Flutter** app to place orders to automatic bar-tending machines (**Brewmac**)
- Incorporated **QR scanning** and **Paytm** payments to enhance user experience
- Designed a **marketplace** and **cart** system for easy browsing and checkout
- Used **server-side technology** to ensure **real-time updates** for available drinks and recipes

## PROJECTS

### AIR SYNC | GOOGLE CHROME EXTENSION | HACKATHON TEAM PROJECT | [REPOSITORY LINK](#)

Jan 2024

- **Technologies:** Python, HTML, Java Script, Computer Vision
- Google Chrome Extension which helps users **navigate websites hands-free**
- Employed **OpenCV** and **MediaPipe** for hand gesture and **PocketSphinx** for speech recognition
- Personally worked on **gesture classification** and the back-end API.

### TASKS MANAGER | WEB APP | INSPIRED FROM JIRA | [REPOSITORY LINK](#)

Jul 2023 – Present

- **Technologies:** React, Redux, Tailwind CSS, Vite
- Designed and developed a web app for **tracking tasks or activities**
- Supported **CRUD operations** for tasks, enabling users to add, update, and delete them
- Implemented **user-defined filters** to categorize tasks
- Tasks and task lists can be **rearranged by simply dragging them**
- Utilized **browser local memory** to implement persistence for the web app

### NATIONAL KIDNEY FOUNDATION APP | MOBILE APP | [PURDUE EPICS](#)

Spring 2023 semester | Project Partner: National Kidney Foundation

- **Technologies:** Flutter, Dart, Firebase
- Worked in a team of **10+ members** to develop a **nutrition tracking app** for CKD patients
- Implemented a **personalized notifications** system using **Firebase Cloud Messaging and Functions** to cross-check daily nutrient intake against a user-entered prescription
- The notifications feature is expected to increase **prescription-compliance** significantly

## LEADERSHIP

### FINANCE LEAD | HELLO WORLD 2023 HACKATHON | EVENT ON 16 SEP 2023

Subsidiary of [Purdue Hackers](#)

- Raised funds through sponsorships, grants, and fundraisers
- Created budgets, projections, and sponsorship packets

### BOILER GOLD RUSH | TEAM LEADER | MAR 2023 - AUG 2023

- **BGR** is one of the biggest new student orientation programs in the country
- As a Team Leader, my role is to interact directly with new students and introduce them to campus, opportunities, and college life as a whole