

PADAM CHOPRA

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EXPERIENCE

Full-stack software developer

AYOrents

📅 July 2019 – Sep 2019

- Allowed users to list items for short-term rental on the mobile and web app by creating a REST API using Node.js and Express.
- Designed and implemented **object schemas** in MongoDB.
- Enabled **faster data fetching and processing** by adding MongoDB aggregation pipelines to the API client library.
- Created **custom frontend widgets** in Flutter to assist the user-interface team.

Mobile app developer (Android)

Bharosa and Company

📅 Apr 2019 – May 2019

- Enabled migration to a **paperless invoice and client management system** by developing a native android app.
- Increased application security by implementing Firebase for authentication, real-time database and storage.
- **Reduced chances of human error** by automating invoice generation and profit calculation.

ACHIEVEMENTS

- **World Finalist in Microsoft Imagine Cup 2018**. Second-runners up and Best project for accessibility in the Indian Nationals.
- **Project Mentor** for Sustainable Computing Research Group in **Google Summer of Code 2018**.
- **Winner of CBSE National Science Fair 2018** - Biggest Science fair for high school students in India, with 450+ competing projects.
- **Grand Prize Winner of Google Code-in 2017**. Completed 71 tasks for SCoRe and was invited to Google HQ, Mountain View, USA.
- **Intel IRIS National Science Fair - Top 7** Medicinal health science projects in India.
- **Global Winner for DECA Idea Challenge 2016**, Global Entrepreneurship Week. Reused plastic bottle as a multi-purpose gardening tool and won USD 700.

EDUCATION

Candidate for Bachelor of Computer Science

The University of Waterloo

📅 Sep 2019 – Apr 2024 (expected)

1A Percentage: 82% (GPA 3.7)

All India Senior School Certificate Examination

Amity International School, India

📅 Graduated: May 2019

Cumulative Percentage: 98%

SKILLS

- **Languages**
Java, Flutter + Dart, SQL, Bash, Scheme, Go, C, Web (HTML, CSS, JS, and PHP), Python.
- **Tools**
Android, Node.js, MongoDB, Git, Firebase, Adobe After Effects, Google Cloud, Postman, Espresso, Microsoft Azure.

CLUBS

- **Google Developer Student Club**
Core Developer; Troubleshooter for the technical aspects of projects undertaken.
- **UW Develoopers** (Mobile Development)
Team Lead of a 10-member team building cross-platform applications.

PROJECTS

Practikality

- A three tier android app, focused on helping the differently-abled communicate better with others. Built with Android, Firebase, Azure, and Watson.
- **VOICE**: TTS with sentiment analysis to provide modulated output matching human speech to the mute.
- **EASI**: Helps deaf interpret speech by displaying signs from a user-created library, eliminating the need to learn ASL.
- **VISION**: Facial recognition, environment analysis and educational assistance for the visually-impaired.

Taskout: Your to-do by others

- Assign tasks to others. Pin-secured task sharing, no sign-up required.
- Built using Node.js, Express and MongoDB.

Encryptid

- A text-based competitive trivia game available through a web-app and an API.
- Used by third-parties, usually high-schools, to host online tech quizzes.

HONORS & AWARDS

- Presidential Scholarship of Distinction
University of Waterloo.
- Chairperson's Scholarship of Excellence
Amity International School.
- Duke of Edinburgh's Bronze Medal