PADAM CHOPRA

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EXPERIENCE

Full-stack Software Developer
AYOrents   *Jul 2019 - Sep 2019*

- Allowed users to list items for short-term rentals on the mobile and web app by creating a REST API using Node.js and Express.
- Re-architected the cloud database to **ease scalability** by implementing object schemas in MongoDB.
- Reduced data fetching and processing times by **20-30%** by adding MongoDB aggregation pipelines.
- Created **custom frontend widgets** in Flutter and contributed to the API client library to populate data in the app.

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.
- Accelerated invoice creation and distribution by **60-70%** by automating the process and implementing it as a one-click mechanism for frequent clients.

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.
- Adjudged as the **winner** of **Atal Tinkering Labs Innovation Challenge** for "Practikality". Got my high school a grant-in-aid of **USD 32,000** for establishing a makerspace.
- **Grand Prize Winner** of **Google Code-in 2017**. Completed 71 tasks for SCoRe and was awarded an **all-expenses paid trip** to Google HQ, Mountain View, USA.
- Finalist at **IRIS National Science Fair 2017**— by Intel, DST and IUSSTF. Adjudged as **Top 100** from over 10,000+ applications and Indian qualifier for ISEF 2018.
- **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
University of Waterloo

📅 Sep 2019 – Apr 2024 (expected)   1A Percentage: 82% (GPA 3.7)

All India Senior School Certificate Examination
Amity International School, India

📅 May 2006 – 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 Developoers** (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 at University of Waterloo.
- Chairperson's Scholarship of Excellence at Amity International School.
- Duke of Edinburgh's Bronze Medal