Aditya Suman

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Education

- Bachelor of Technology, **Indian Institute of Technology Patna (IIT P)**, CPI – 7.18/10   2016 - Present

Work Experience

- **Engineering Intern**   May 2019 – July 2019
  ISRO Telemetry, Tracking and Command Network (ISTRAC), Bangalore
  o Worked in **SDG Laboratory** to develop an App & Web Interface for monitoring and control of **MEOSAR**.
  o Created **Web-Socket Client** in **Java** & **JavaScript** to connect App to the **Web-Socket Server** built on **Python** to extract real-time big data coming from **satellites**.
  o Process and manipulated data to extract relevant info. from **JSON** into human readable and interacting interface.
  o Implemented **Service** in Android to keep **Web-Socket Client** running in background even when the app is minimized or closed to get push notification, required for equipment status details and new beacon alert.
  o **Technologies:** Android Studio, Java, REST API, JavaScript, Python, PHP, MySQL, jQuery

- **Software Development Intern**   Nov 2018 – Jan 2019
  Oxyvin Technologies (OPC) Pvt Ltd, Bangalore
  o Worked on **CodeIgniter** framework for **MVC Architectural** Application Development.
  o Divided different forms in different steps to be followed in chronological order in each modules and used different **Normalization** techniques to store data in more structured form in **MySQL** database.
  o **Technologies:** CodeIgniter, PHP, MySQL, phpMyAdmin, jQuery, JavaScript, AJAX, Bootstrap

- **Software Development Intern**   May 2018 – July 2018
  NGCN Infosolutions Pvt Ltd, Suratkal
  o Developed an **ERP Software** used for **Billing and Inventory** work with features like Multi-Branch & Multi-User.
  o Created a **Single Page Application** using **jQuery** and used **AJAX** to perform different tasks in background to minimize slow loading and to avoid repeated loading of same UI.
  o **Technologies:** PHP, jQuery, JavaScript, AJAX, MySQL, phpMyAdmin

- **Full Stack Web Development Intern**   Dec 2017
  CatchFreeDeal, Noida
  o Developed a complete website from scratch which displays deals & coupons from different e-commerce sites.
  o Implemented user authentication feature (login, logout, register) from scratch using **PHP** and **MySQL database** and also used **facebook API** to give login feature from facebook.
  o **Technologies:** PHP, jQuery, JavaScript, AJAX, MySQL, phpMyAdmin, Bootstrap

Achievements

- **Internship at ISRO:** Recieved Letter of Recommendation and ranked among **top 2% students** worked under **S. Santhalakshmi, Scientist 'SF' & Manager SDG**, ISTRAC-ISRO.
- **Internship at NGCN:** Recieved **Return Offer** & **Recommendation** on LinkedIn Profile from **Justin Sebastian**, CEO of NGCN, Oxyvin.
- **Professor of IIT Patna:** Got Letter of Recommendation from **Dr. Jimson Mathew, Head of Department (HOD)**, and Letter of Appreciation from **Dr. Mayank Agrawal**, Assistant Professor, IIT Patna.
- **JEE Main:** Secured **98.97 percentile** out of 12,07,058 candidates appeared in JEE Main 2016.
- **Key Issue App for IIT Patna:** This App resulted in faster issuing and returning of keys which prevents queue and saves time. **2750+** keys of labs & rooms in IIT Patna have been issued and returned till date.

Academic Projects

- **App for GST Department, Government of Bihar**   July 2019 - Present
  o Working under supervision of professor **Dr. Mayank Agrawal** & **Dr. Jimson Mathew** at IIT Patna for developing an App to perform task like extracting data from large CSV files, live location tracker, location & user based content, contact number dialer, feedback system, etc.

- o **Technologies:** Android Studio, Java, REST API, opencsv library
- o **GitHub Repository:** https://github.com/adityasuman2025/GSTAppDemo

- **Key Issue System for IIT Patna**   Feb 2019
  - o Used **Zxing library** of Java and enabled mobile phone camera to scan QR code of the keys & person.
  - o Created **REST API** on **PHP** to verify and check QR Code data and to get issued keys history, not returned keys list and issuing person details from database.
  - o **This App has been successfully implemented and is in use in IIT Patna.**
  - o **Technologies:** Android Studio, Java, REST API, PHP, MySQL, Zxing library
  - o **GitHub Repository:** https://github.com/adityasuman2025/KeyIssue

- **Wi-Fi Based Attendance System for IIT Patna**   Mar 2019 - April 2019
  - o Developed an Attendance App using **Wi-Fi technology** of smartphone by implementing **Socket Client** in the **student version** and **Socket Server** in the **professor version** of the App**.**
  - o Used S**ocket Programming** techniques to let the the socket communicate with each other at a particular **IP & PORT** over Wi-Fi Network.
  - o **Technologies:** Android Studio, Java, Socket, REST API, PHP, MariaDB
  - o **GitHub Repository:** https://github.com/adityasuman2025/WifiStudentAttendance

- **Calculator**   Sep 2017
  - o Implemented **Infix to Postfix** conversion algorithm, stack data structure and various string functions in Java to develop a standard calculator Android App.
  - o Developed this as a semester project for course **CS382** at IIT Patna.
  - o **Technologies:** Java, Android Studio
  - o **GitHub Repository:** https://github.com/adityasuman2025/MNgoCalc

Other Projects

- **ChatApp**   June 2018 - July 2018
  - o Used **Socket Programming** libraries of Java to create **Socket Client** to connect to socket.io **Node.js** Server.
  - o Wrote **REST API** on **Node.js** to get user data & old messages and to store new data in **mongoDB** database.
  - o Implemented **Service & Foreground Process** in Android to keep **Socket Client** running in background even when the app is minimized or closed to get push notification of new message or unseen messages.
  - o Used **Multithreading** feature of Java to make the App faster and to minimize load on UI thread of the App.
  - o **Technologies:** Node.js, mongoDB**,** express.js, socket.io, Android Studio, Java, REST API
  - o **App link:** http://chat.mngo.in

- **Anwesha 2k18 Website's Front-end**   Sep 2017 – Jan 2018
  - o Design & developed front-end of the 2018's website of annual cultural fest of IIT Patna.
  - o Implemented mousewheel.js to scroll the website horizontally and used jQuery features like mouse location, on scroll, image location coordinates, AJAX, etc to create a unique design of the website.
  - o **link:** https://2018.anwesha.info

Skills & Interests

- **General:** Android & Web Application Development, API Development, MVC Architectural Application Development
- **Programming language & Database:** Java, JavaScript, Python, PHP, SQL, MySQL, mongoDB
- **Web Technologies:** jQuery, Node.js, REST API, Web-Socket, Socket.io, CodeIgniter, express.js, HTML, CSS
- **Other Tools:** Android Studio, Git, cPanel, Heroku, Google Cloud Platform Compute Engine, AWS EC2
- **Operating System**: Linux, Windows

Position of Responsibility

- Former Coordinator, **Design Club, IIT Patna**   2017 - 2019
- Former Web & App Team Sub-Coordinator, **Anwesha 2018, IIT Patna**   2017 - 2018
- Former Web Master, **Entrepreneurship Club, IIT Patna**   2017 - 2018