

Aryan Agarwal

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SUMMARY

Experienced software engineer with 2+ years in **full-stack development**, **API development**, and **data analytics**. Adept in leveraging **Python**, **Java**, **C/C++**, **Kotlin**, and frameworks like **Django**, **Node.js**, and **Express** to build robust **Android**, **iOS**, and **web applications**. Skilled in **agile methodologies**, **cross-functional collaboration**, and **project management**, complemented by strong **problem-solving abilities** and a passion for delivering high-quality, innovative solutions.

EDUCATION

Arizona State University

Masters of Science in Computer Software Engineering, GPA: 4.0/4.0

Tempe, AZ

Aug 2022 – May 2024

Vellore Institute of Technology

Bachelors of Technology in Information Technology, GPA: 3.5/4.0

Vellore, TN

Jul 2018 – May 2022

EXPERIENCE

Software Developer

Aug 2023 – May 2024

Auto BIM Route

Tempe, AZ

- **Transformed** ABR AI's desktop application into a **dynamic web application**, increasing user accessibility and **expanding user base by 25%** leveraging **NodeJS** and **web technologies**.
- **Redesigned** the **UI/UX**, resulting in a **30% improvement in user engagement metrics** during initial testing phases, by applying advanced **NodeJS** techniques.
- **Led a team of 5** to integrate web technologies, resulting in a **20% reduction in operational costs** for ABR AI by ensuring robust and scalable application performance.

Teaching Assistant

Oct 2022 – May 2024

Arizona State University

Tempe, AZ

- **Co-developed** course curriculum for Software Testing (CSE565) and Computer Architecture (SER450), **positively impacting over 150 students per semester** by integrating modern technologies and methodologies.
- **Designed and implemented** innovative grading rubrics in collaboration with faculty, **streamlining assessment of 500+ assignments**, ensuring consistent and efficient evaluation.

Software Development Intern

Jan 2022 – Aug 2022

Cognisun Infotech Pvt. Ltd.

Ahmedabad, GU

- **Engineered** an employee management mobile application using **Flutter** and **Django**, **improving organizational efficiency by 40%** by creating a user-friendly and functional app.
- **Architected** and deployed database solutions for a multi-tier employee management system, **supporting over 100 employees** by ensuring seamless data integration and accessibility.
- **Resolved over 150 bugs per quarter**, maintaining high application reliability and receiving a **consistent product excellence rating from internal stakeholders**.

PROJECTS

Decoding Market Trends using Data Science | *Python, Sci-Kit Learn, Git*

Aug 2023 – Dec 2023

- **Uncovered consumer preferences** and **guided product positioning strategies** by **analyzing data from 530 smartphone models** using **K-means clustering** and **Python (sci-kit learn)**, resulting in actionable insights for marketing and development.

Development of a Programming Language – Citrus | *Prolog, Python, Git*

Jan 2023 – May 2023

- **Developed** 'Citrus,' a programming language built on **Prolog** and **Python**, by **designing grammar rules**, **setting up workspace**, **implementing parser/evaluator**, and **creating comprehensive test cases**, resulting in a functional and reliable language.

TECHNICAL SKILLS

- **Languages & Frameworks:** Python, Java, C/C++, Django, Flutter, HTML, CSS, PHP, NodeJS, Express, MongoDB,
- **Tools & Technologies:** Git, Taiga.io, Jupyter, Postman, AstahUML
- **Libraries:** Pandas, NumPy, Scikit-learn, SciPy, Matplotlib
- **OS & Databases:** MySQL, Windows, Unix/Linux
- **Concepts & Methodologies:** Agile, OOP, RESTful API Development, Data Science, Compiler Design, RDF, Machine Learning, Declarative Programming (Prolog)