

ASHWINKUMAR AJITHKUMAR PILLAI

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SKILLS

Programming Languages : C, C++, Java, JavaScript, Python, SQL, Rust
Development and Database : Angular, React, NodeJS, Ionic, MySQL, MongoDB, Spring Framework, HTML, CSS
Tools : Git, Docker, Postman, Visual Studio Code, Google Colab, Jupyter Notebook, AWS

WORK EXPERIENCE

Software Engineer, Full Stack & AI | Next.js, Node.js, TypeScript, AWS, Python, MongoDB Apr 2025 - Present
AI20Labs Remote

- Spearheaded full-stack development of a production-grade AI-powered SaaS platform, owning end-to-end delivery of critical features across frontend, backend, deployment, and DevOps.
- Built the entire frontend architecture from scratch using Next.js, including dashboard, authentication flows, and AI assistant.
- Developed and integrated backend APIs for user auth, agent interactions, and read receipts; implemented AI email assistant and analytics features end to end.
- Managed deployments via AWS (ECR, EC2, CloudWatch), handled DNS with Cloudflare, and configured alerts to Slack for container health monitoring.
- Authored detailed JIRA tasks and documentation; established coding standards and created onboarding docs for faster team ramp-up.
- Conducted code reviews across 3 repositories and mentored 2 interns, guiding task execution and evaluating performance.
- Collaborated with PMs and resolved client issues via email and live calls.

Software Engineer, Full Stack | Next.js, Node.js, MongoDB Oct 2024 - June
Colombo AI Remote

- Architected the Wallet microservice in Flask to fetch Google AdSense data and distribute revenue based on impressions and views.
- Improved Feed performance with infinite scrolling and MongoDB indexing, reducing load times by 60
- Built secure Passkey authentication and refactored legacy modules, reducing technical debt by 40
- Automated CI/CD with GitHub Actions and Docker, cutting deployment time from 1 hour to 5 minutes with zero downtime.

Associate Software Developer | Java, JavaScript, Node.js Aug 2021 - Jul 2022
Accenture Solutions Pvt. Ltd. Bangalore, India

- Completed an intensive 4-month training program in Java, Servlets, and Spring Boot leading to an early promotion
- Engineered and implemented coverage rules in JavaScript for an insurance company, improving business logic efficiency.
- Conducted unit testing to ensure functionality and reliability of coverage rules, reducing defects by 30%.
- Collaborated with a development team in an Agile environment, in sprint planning, daily stand-ups, and retrospectives.

Front end Developer Intern | Angular, Ionic, Node.js Jun 2019 - Feb 2020
Zifcare Self Development App Ahmedabad, India

- Led the design and development of the "Mood Journal" component, enhancing user experience for the mobile app
- Contributed to the development of key features such as the "Focus" tab, "News-feed", and "Chat Bot"
- Successfully deployed the application on both Android and iOS platforms, ensuring a seamless deployment process.

EDUCATION

University of Georgia, GPA: 3.92/4.00 Aug 2022 - May 2024
Master of Science in Computer Science Athens, GA

L. D. College of Engineering, GPA: 9.75/10.00 Aug 2017 - Jun 2021
Bachelor of Engineering in Computer Engineering Ahmedabad, India

PROJECTS

TA Assignment for School of Computing | Python, SQLite Sep 2023 - May 2024

- Automated TA assignment process using the Hungarian Algorithm to optimize assignments based on class schedules, TA availability, and instructor preferences.
- Developed a local database and conflict matrix to ensure efficient and conflict-free TA allocations.
- Designed user-friendly HTML views to display TA assignments and detailed conflict breakdowns, enhancing transparency for department staff.