ASHWIN KAPILE

Fullerton, CA

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Education

California State University Fullerton   **August 2024 – Present**
Master of Science in Computer Science   *Fullerton, CA*

Relevant Coursework

Advanced Algorithms, Web Backend Engineering, Advanced Database Management, Modern Software Management, Artificial Neural Networks, Cloud Computing, Software Design and Architecture, Artificial Intelligence and NLP, Computer Networks and Security

Professional Experience

Kasnet Technologies   **Jan 2023 – Mar 2023**
Cloud Solutions Intern – Microsoft Azure Platform   *Pune, India*

- Led the deployment of a scalable ReactJS application via Azure App Services, improving overall operational efficiency by 30%.
- Engineered and normalized Azure SQL database schemas, achieving a 35% increase in data query performance.
- Strategized and implemented cloud cost optimization techniques using Azure Cost Management, cutting infrastructure expenses by 20%.
- Configured Azure Monitor for real-time observability, resulting in a 25% improvement in app response time and a 40% boost in user engagement.

Projects

Natours: Scalable Tour Booking Platform → | https://natours-ashwin-2ecc29bf0c74.herokuapp.com/   **March 2025**

- Built a full-stack tour booking app with JWT authentication, role-based access control, and secure API routes.
- Optimized MongoDB queries using indexing and aggregation, reducing API response time by 40%.
- Integrated Stripe for seamless transactions, achieving a 98% booking payment success rate.
- Designed RESTful APIs with robust error handling, ensuring 99.9% uptime and scalability.

Shortify: AI-Powered URL Shortener → | https://shfy.live/5YfVGW   **Aug 2025**

- Developed a scalable, production-grade URL shortener handling **10k+ requests/day**, with Redis caching reducing redirect latency by **40%**.
- Integrated DeepSeek API to auto-categorize **90%+ of URLs** (e.g., Social, Shopping, Entertainment), enhancing link management and analytics.
- Implemented security best practices (rate limiting, JWT auth, Helmet, HPP) and deployed via **Render + Vercel**.

usePopCorn - A Movie Rating App → | *https://ashwinmoviesapp.netlify.app*   **December 2023**

- Developed a movie rating app using React Hooks (`useState`, `useEffect`, Custom Hooks) that optimized component re-rendering, reducing average load times by 30% and enhancing user experience.
- Engineered reusable custom hooks, decreasing code duplication by 20% and improving maintainability.
- Leveraged LocalStorage for persistent data storage, reducing data retrieval times by 95% and increasing average session duration by 25%.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, C++, Python, SQL
Databases: MongoDB, MySQL
Frontend: React.js, Next.js, Tailwind CSS, HTML, CSS
Backend: Node.js, Express.js, RESTful APIs, JWT Authentication
DevOps & Cloud: Docker, Google Cloud (GCP), Azure
Developer Tools: Git, GitHub, Postman, Insomnia, VS Code, Selenium

Academic Research / Certifications

Node.js, Express, MongoDB & More: The Complete Bootcamp *by Jonas Schmedtmann* - Professional Backend Development Certification
The Ultimate React Course 2024: React, Redux & More *by Jonas Schmedtmann* - Professional ReactJS Certification
Responsive Web Design - FreeCodeCamp Certified (300 hours)
Cloud Engineering Track and Data Science & Machine Learning - Professional Google Certification
Microsoft Certified: Azure AI Fundamentals - Microsoft AI Certification
Microsoft Certified: Azure Fundamentals - Professional Cloud Certification