Japman Singh Kohli

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EXPERIENCE

Backend Developer — Feb. 2025 – Present
Local Grown Salads — Remote - Foster City, CA
- Developed Flask microservices with Firebase Auth and Firestore, enabling secure access and centralized data control.
- Designed a real-time PostgreSQL replication pipeline, ensuring consistent state across distributed environments without polling overhead.
- Containerized the backend with Docker and managed dependencies using Poetry, streamlining workflows all around.
- Implemented structured logging and API monitoring hooks to support live debugging and observability across services.

Software Engineer Intern — Sep. 2024 – Jan. 2025
ChitChat Social — Remote - Dallas, TX
- Developed UI features and backend systems for a React Native social media app, enhancing layout and user interactions.
- Improved performance of a GraphQL + AWS Amplify backend, cutting query latency by 35% through schema optimization.
- Refactored Android Gradle configurations, improving build speed and multi-environment support (dev, staging, prod).
- Implemented CI/CD pipelines using GitHub Actions, automating testing and deployments, speeding up releases by 40%.
- Integrated secure media uploads via AWS S3 and Amplify Storage, enabling efficient and scalable file sharing.
- Optimized mobile app performance, reducing time-to-interaction from 15s to under 3s for a smoother user experience.

Full Stack Intern — Jan. 2024 – Jun. 2024
University of California, Davis - College of Engineering — Davis, CA
- Built a responsive alumni data portal using React.js, Next.js, and SASS, featuring dynamic tables, CSV exports, and role-based views.
- Developed a backend using Node.js + Express.js + MongoDB, supporting thousands of records and scalable exports, displayed on a ReactJS frontend.
- Automated nightly web scraping with Puppeteer + Cron, cutting manual updates by 80% and keeping alumni data current.
- Integrated Mailchimp for automated email notifications and campaigns based on user-defined intervals.
- Achieved 93%+ test coverage with Jest, and implemented Postman + Newman pipelines for API regression testing.
- Contributed to Agile sprints and coordinated with faculty via Slack to deliver a fully deployed, production-ready system.

Co-Founder — Nov. 2023 – May 2024
Stealth Startup — Davis, CA
- Co-founded a networking startup for large-scale professional events to support live engagement and meaningful connections.
- Developed a ReactJS frontend and a demo Dart application to enable beta testing of the Proof-of-concept application.
- Developed a scalable Node.js + Express backend MVP for real-time event features and stakeholder demos.

PROJECTS

JustPlay | Javascript, ExpressJS, Supabase (Auth, PostgreSQL), ReactJS — Jun. 2024 – Aug. 2024
- Developed and deployed a gaming discovery web app inspired by JustWatch, integrating REST APIs to retrieve and display data for over 10,000 games.
- Designed secure authentication with Supabase Auth and scalable backend services using Node.js and Express.js.
- Deployed to AWS EC2 using Docker + GitHub Actions, with continuous integration and Supabase updates.

Butterfly Recognizer | Python, TensorFlow, Keras, CNN, Sklearn — Oct. 2022 – Dec. 2022
- Designed and trained a convolutional neural network (CNN) achieving 92%+ accuracy for species classification.
- Led data preprocessing and augmentation pipelines; optimized models using Adam optimizer and learning rate scheduling.
- Evaluated model robustness using precision, recall, F1-score, and confusion matrix metrics.

EDUCATION

University of California, Davis — Davis, CA
Bachelor of Science in Computer Science, Minor in Accounting — Sep. 2020 – Jun. 2024

SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML5, CSS, GraphQL
Frameworks/Libraries: React, Node.js, Express, Spring, Apollo Client, Expo
Developer Tools: Git, Docker, Postman, CI/CD Pipelines (Github Actions, Vercel), JIRA, Cron, Puppeteer, JEST
Databases/Cloud: MongoDB, Amazon Web Services S3, Supabase (Auth and PostgreSQL), Prisma ORM, Firebase (Auth)