AKASH NAIR

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OPEN SOURCE PROJECTS

Browser Fingerprint Spoofing *chrome extension, javascript* · on chrome store with 10,000+ users
t source code chrome store link

PROFESSIONAL EXPERIENCE

Amazon   **Seattle, WA**
Software Developer Engineer   August 2023 - Present

- Enhanced sign-in security and user experience by implementing automatic passkey enrollment, reducing reliance on passwords. projected to increase passkey usage by 113 basis points EOY

- Reduce SMS costs per month by 48.04% from $300k to $150k using ML models to filter fraudulent accounts

- Engineered the one time password workflow for Amazon.com's signin page, enabling efficient one-time password (OTP) generation and verification ensuring 99.99 availability.

Sunny Day Fund   **Arlington, VA**
Full Stack Developer   March 2023 - August 2023

- Crafted employer-rewarded emergency savings designed to stabilizes workers' finances led to 33% less turnover (p<0.05) relative to overall turnover. Utilized NodeJs and Postgres

Amazon   **Seattle, WA**
Intern   May 2022 - August 2022

- Devised a tool for running analytics on the sign-in workflow data 4 million queries per day - utilized Lambda, SQS, Redshift, and proprietary internal tools at Amazon

- Completed project and handed off project with in-depth write-up, documentation, and unit test cases, ensuring 100% line coverage using Mockito unit tests, Functional Tests, Load Tests, Stress Tests

Vizury   **Bangalore, Karnataka**
Backend Engineer   July 2019 - May 2021

- Increased Client retention as measured by decreasing customer churn-out rate by 15 % by researching and implementing a new Database Apache Druid to trace 80 million notifications daily in real time

- Cut down wait time for changes in campaign from 40 mins to 5 mins by refactoring legacy code in the ETL pipeline (specialized in Facebook campaigns)

- Accomplished solutions in mobile behavioral retargeting in a real-time bidding system authored code to handle high volume and low latency -5 milliseconds, worked with Bloom Filters, Apache Kafka, Aerospike, Vertica, Redis, deployed to a cluster operating PuppetMaster

- Implemented and managed personalized push notification strategies utilizing Browser-push, In-App, On-site, Email, and Facebook channels. Developed scalable and well-documented code in Java and Python to deliver targeted messages based on user data helped grow revenue by 3x

- Tracked unique Monthly Active Users creating a new tool- approximately 700,00 existing users and 200,000 new users per campaign for billing

- Mentored 2 new-joiner and 1 intern, helped set up environment, provided guidance, and know-how

- Maintained and implemented code for The Hartford to ensure the most competitive auto insurance rates

Nvidia   **Pune, Maharashtra**
Intern (Co-op)   July 2017 - December 2017

- Designed a scalable mobile app, could communicate with Nvidia Hardware

EDUCATION

University of Virginia   **Charlottesville, VA**
Masters of Science Computer Science   August 2021 - December 2022
Birla Institute Of Technology and Science (BITS Pilani)   **Goa**
Bachelors of Engineering (Hons) Electrical and Electronics Engineering   August 2014 - July 2018

TECHNICAL SKILLS

Programming languages:	Java, Python, Javascript, Bash
Databases:	Redis, Aerospike, SQL, MySQL, MongoDB, Vertica, Apache Druid, DynamoDB
Tools:	Maven, Gradle, Jenkins, git, Mockito-unit Tests, Log4j, Unix, Linux, distributed storage
Frameworks:	Apache Kafka, HTTP, REST API, microservices, data structures, kernel, CI/CD
Cloud Technologies :	cloud computing, AWS, Azure, EC2, S3, RDS, ELB, Lambda, SQS