Mike Medved

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Experience

Software Engineer   July 2024 – Present
Walmart Global Tech   *Sunnyvale, CA*

- Conducted AI-powered experiments such as livestream highlights, product asset enhancement, and smart filtering which boosted user engagement by ∼5-10% on average per experiment affecting over 1.5M users across web and mobile.
- Architected and developed GCP-based data pipelines (using Dataproc, Hive, Spark, Airflow) processing 50,000+ pieces of social content that power all on-site social modules (Walmart.com homepage, deals page, mobile discover tab), enhancing product discovery by over 10% and user conversion by ∼5% across platforms.
- Designed and implemented the backend of a standardized holiday performance dashboard for use by SVPs during the peak retail season (Thanksgiving/Black Friday), tracking $10B+ of orders and hundreds of millions of engagements; led data integration effort across 12 teams.
- Created and productionized several internal libraries, including an AI SDK provider for our LLM Gateway, currently adopted by 10+ teams, standardizing integrations and allowing teams to collaborate and build AI features more efficiently.
- Engineered a scalable, infinite-scroll reels feed on Walmart.com, serving social content through a familiar feed UX to enable surfacing products to the user and showcasing our collection of 100,000+ pieces of social content.

Software Engineer Intern   May 2023 - August 2023
Walmart Global Tech   *Bentonville, AR*

- Improved the patient care portal experience, increasing appointment uptake by 25% and optimized provider telehealth and caseload views, building features with Angular, TypeScript, and AWS Lambda.
- Streamlined the care coordinator portal, reducing provider assignment time by up to 5 seconds per patient and allowing coordinators to on average manage 25 more patients weekly.
- Enhanced telehealth portal reliability and performance by optimizing WebRTC flows and addressing rigidness in the scheduling flow, reducing dropped sessions by 70% and streamlining the patient experience.

Software Engineer   Jan 2022 - May 2024
University of Connecticut   *Storrs, CT*

- Developed Srvmon, a realtime observability platform for monitoring over 5,000 pieces of A/V equipment, and several thousand digital signs. Utilized by IT across 5 campuses and over 350 classrooms to prevent the need for support calls and drastically reduce the time to detection and remediation of classroom unavailability incidents by 90%.
- Created tooling and conducted network security audits on over 10,000+ devices on UConn networks, interfacing with Splunk, Defender ATP, and Cisco Prime to identify risks and collaborate with InfoSec on remediation efforts.
- Automated device and software management workflows in Intune, SCCM, and JAMF, enabling consistent policy enforcement across a wide range of devices and environments, including labs, classrooms, and admin offices.

Education

University of Connecticut   Aug 2020 – May 2024
B.S. Computer Science, Mathematics Minor

Projects

Airside (TypeScript, Next.js, Postgres, Redis, S3, n8n)   airside.info

- Built a platform to track trips, surface real-time airport data, and visualize travel history, streamlining the travel experience and consolidating fragmented aviation data. Curated and open-sourced a comprehensive lounge dataset covering 80 major North American airports and 400+ lounges to support third-party integrations and open data reuse.

Cobalt (TypeScript, Next.js, Supabase, S3)   github.com/notm1ke/cobalt

- Created a unified portal for students to access fragmented university systems like course search, dining, and gym capacity by building custom scraping and data pipelines, improving accessibility and campus engagement for over 40K users and 2K monthly actives. Also delivered tech talks on campus outlining how I built it with Next.js and the Vercel ecosystem.

Technologies

Languages: TypeScript, JavaScript, Python, Java, SQL, HTML/CSS
Technologies: Next.js, Spring, PostgreSQL, MongoDB, Redis, AWS, GCP, Docker, LDAP, Airflow