VICENTE ALMEIDA

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EDUCATION

Technical University of Munich (TUM), Germany **Oct 2020 – Sep 2024**
Bachelor of Science, Informatics

WORK EXPERIENCE

Avelios Medical **Jul 2022 – Feb 2024**
Software Engineer, Working Student

- Core member of the frontend development team for Avelios, a hospital platform used by major clinics in Germany
- Implemented updates based on user feedback to the physical examination interface comprised of ~130 cards for a rollout of the outpatient module in the orthopedics department of a large clinic
- Built a modular UI component that unified the interface used by doctors to document and monitor patient treatments across four key workflows in our inpatient module
- Implemented new features for demos with crucial clients, such as an interactive hospital floor plan and a diff-like interface for doctors to compare admission and ward medication of a patient and prescribe discharge medication
- Dec 2023 - Feb 2024: Built the Frontend for the analytics service of the Avelios system that gathers and provides structured data about hospital processes as part of a practical course offered by Avelios and TUM
- Technologies: React, Typescript, GraphQL, Apollo Client, Ant Design

PROJECTS

Olymarket **Jun 2023 – Present**

- Built a mobile app for students in one of Munich's largest student residences, to buy and sell second-hand items
- Built a scalable image upload workflow, allowing users to upload images to an S3 bucket using presigned URLs. A Lambda function, triggered by S3 events, compresses the images for improved loading speeds
- Implemented a search feature for users to search and filter posts by ingesting data from the primary PostgreSQL database into Elasticsearch using Logstash, ensuring fast search results
- Technologies: Expo, React Native, Typescript, Node.js, Express.js, Supabase, Google Cloud Platform (GCP)

Solana Launchpad **May 2024 – Present**

- Built a platform for people to launch and trade crypto tokens in the Solana blockchain
- Architected and implemented the entire system from scratch, including a Next.js web app, an on-chain Solana program, and an API for clients to create, search, and launch tokens
- Implemented a Cloudflare worker that indexes blockchain data, such as transactions and accounts data, in the PostgreSQL database, resulting in lower query execution times
- Designed and implemented a mobile-friendly UI, which increased user engagement on mobile devices
- Technologies: React, Typescript, Next.js, Supabase, Vercel, Rust, Anchor

Live-Streaming System **May 2024 – Sep 2024**

- As part of a thesis project, built a live-streaming system using Media over QUIC (moq) and experimented with different strategies for prioritizing video content to reduce latency
- Implemented a novel streaming protocol that trades off stream quality for lower latency, achieving maximum latencies of 1 to 2 seconds even during network congestion
- Built a testbed to compare the performance of different streaming strategies by simulating network conditions using PF and Dummynet and measuring relevant metrics such as latency and buffering time
- Technologies: Typescript, Golang