



## Skills and Achievements

- **Languages:** Javascript, Typescript, Python, SQL
- **Frameworks & Libs:** React, React Native, Android, iOS, Next.js, Vue.js, FastAPI, Django, Node.js, Express.js
- **Databases & DevOps:** NoSQL, Postgres, Systems Design, Serverless, GCP, Docker, CI/CD & Automated Testing
- **Soft:** Highly Ambitious, Growth Mindset, Systems Thinking, Empathy & Conflict Management, Problem Solving
- **Coding Achievements:** Google Foobar Invite, GUTS Hackathon (7/200+), Google Kick Start E (Top Decile)

## Experience

### biddz GmbH | Lead Software Engineer | June 2022 - Present | Berlin, DE

React Native, FastAPI, Systems Design, Postgres, Firestore, Cloud Functions, Cloud Storage, React, Next JS

- Built an E2E web and mobile application at a music startup with 50,000+ MAUs, under the mentorship of the CTO. Progressed into leading a 4-person frontend team using SCRUM to rapidly introduce new features.
- Implemented refactoring proposals to optimise NoSQL CRUD operations, directly cutting costs by at least 40%.
- Migrated to modular SDKs to leverage tree shaking, reducing bundle size by 70% to 2MB. Refined state management and applied memoisation, achieving near-native performance with a latency of <1s.
- Established the FE CI/CD pipeline with auto-deploy to staging and production channels, secured by automated tests written using Jest and Playwright. Saved ~5 hours of manual deployment effort per week.
- Optimised monolithic backend by migrating calls for authentication, notifications and external integrations (Instagram, Spotify) to serverless Cloud Functions, reducing API response times by 90%.
- Selected as a foundational engineer post-pivot. Architected NoSQL schema design and used Next.js and SSR to develop an SEO-optimised, full-stack CRM and messaging tool, delivering the beta in 3 weeks.

### SplendEd | Full-Stack Developer | Feb 2022 - Dec 2022 | Berlin, DE

Next.js, Express.js, Nest.js, Postgres, TypeORM, AWS Lambda, AWS CloudFront, S3

- Collaborated with the core team to engineer an enterprise-level platform for an ed-tech firm in DACH. Developed a Next.js client capable of delivering 10GB+ of learning resources via a fault-tolerant CloudFront & S3 network.
- Created a RESTful API using Nest.js. Enabled fast data retrieval from a Postgres DB using TypeORM, speeding up SQL transactions and FE loading times by 25%.

## Projects

### Sewy Seven | Software Engineer | Dec 2023 - Present | Berlin, DE

Data Analysis, Apache Spark, Pandas, SciKit-Learn, Probability Theory, Content Creation, Branding

- Scraped and wrangled 20 years of Premier League data using Spark and Pydantic. Built a classification model to predict the outcome of upcoming league matches with 71% accuracy on average.
- Minimised costs using NoSQL, efficiently hosted 15GB+ of data, serving 1M+ API reads for €0.20 per month.
- Scheduled cron jobs to auto-scrape statistics after every gameweek and update estimates for the Bayesian inference model, often improving predictions by 5 percentage points.
- Creating a mobile app and Instagram page for football fans to visualise statistics and build fan communities.

## Education

- **CODE University of Applied Sciences (Germany, 2021-2024)**  
Bachelor's of Science, Software Engineering (Grade: 1.5, GPA: 3.8/4.0)
- **University of Glasgow (UK, 2020-2021)**  
Bachelor's of Science, Software Engineering Faster Route (GPA: 21/22)
- **Kodaikanal International School (India, 2018-2020)**  
International Baccalaureate DP (GPA: 3.91/4.0 | IB: 40/45)