ANSH CHATURVEDI

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SKILLS

Languages/Frameworks: TypeScript (Node.js), Python, Elixir, C/C++, Java, Scala, Ruby (on Rails), Rust
Libraries/Databases/Tools: MySQL, PostgreSQL, Git, Kubernetes, Docker, OpenTelemetry, GitHub Actions, CircleCI

EDUCATION

University Of Waterloo   Waterloo, Ontario
Bachelor of Computer Science, Honours   Expected Apr 2026
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Architecture, Databases

EXPERIENCE

Brassica Finance   New York City, NY
Software Engineer Intern (Real World Assets)   Jan 2025 – Apr 2025
- Will be working on investment infrastructure for alternative assets in Elixir, TypeScript and Rust!

BitGo   Palo Alto, California
Software Engineer Intern (Internal Tools)   May 2024 – Aug 2024
- Redesigned and implemented the next generation of openapi-generator, BitGo's TypeScript-based **open-source tool**, to generate OpenAPI specifications directly from arbitrary **TypeScript source code**
- Led the migration of BitGo's **Wallets API**, their highest revenue-generating service, to use openapi-generator, automating the documentation generation process
- Developed **reusable GitHub Actions** for auditing OpenAPI specifications and automating updates to the developer portal, impacting over **50 companies** and **5000+ individual developers**
- Enhanced navigation of BitGo's developer portal by adding first-class support for **MDX linting** and **deep links**

theScore   Toronto, Ontario
Software Engineer Intern (Platform)   Sep 2023 – Dec 2023
- Integrated a sports data source using a **persistent SSE connection** in Elixir, enabling ongoing replay of historical NFL games to test the health of uninterrupted **real-time data ingestion** during core service updates
- Led organization-wide migration of legacy ingestion to a parallelized cronjob system using **PostgreSQL-powered job queues**, achieving **99%+ system availability** and a **35% boost in job throughput**
- Enabled distributed tracing and telemetry emission across multiple ingestion services using the **Erlang OpenTelemetry API**

Software Engineer Intern (Core Systems)   Jan 2023 – Apr 2023
- Co-led a system migration of multiple **data ingestion workflows**, introducing faster, real-time soccer breaking news, scores, and statistics to theScore's media and betting apps, including **ESPN Bet**
- Involved in a project to oversee a **25,000-line system-code migration** for one of their ingestion services, moving from Python to Elixir and taking advantage of its real-time processing and concurrency features
- Developed a **GitHub Action** and **CircleCI build pipeline** to streamline environment checks, deployments to Kubernetes, environment resets, and PR generation, using caching to achieve almost **45% quicker build times**

Software Engineer Intern (Core Systems)   May 2022 – Aug 2022
- Worked with the backend team on their real-time sports data-ingestion infrastructure using Elixir and MySQL.
- Designed and implemented a **OTP-powered data-ingestion workflow** in Elixir for the upcoming NFL season, adding real-time app support for live box scores, play-by-play events, and betting odds
- Collaborated cross-functionally with QA, Mobile, and Product teams to determine software bugs, plan out JIRA stories, and deliver high-quality, unit-tested, fault-tolerant software to production