

Chanel Muir

+6422-595-0112 | chanelkmuir@gmail.com | github.com/ChanelMuir | chanelmuir.com/

SUMMARY

Full-stack Computer Science graduate with hands-on experience building and deploying production-style web applications using React, Next.js, TypeScript, Node.js, and PostgreSQL. Strong interest in system design, API integration, and AI-assisted development. Comfortable working across frontend, backend, and data layers to deliver complete end-to-end software systems.

EDUCATION

La Salle University

B.S. Computer Science, Mathematics Minor

GPA: 3.99 / 4.00 (Summa Cum Laude)

Philadelphia, USA

Aug 2024 – May 2026

University of Tulsa

B.S. Computer Science (Transferred)

Tulsa, USA

Aug 2022 – May 2024

EXPERIENCE

Software Engineer

July 2026 – Present

STRABB (*part-time, remote*) — Multi-tenant SaaS for short-term rental hosts

- Contribute full-stack across a production FastAPI/PostgreSQL backend and Next.js/TypeScript frontend on a multi-tenant SaaS platform, working across API design, database queries, and UI
- Debug production-affecting issues that pass CI on the surface, tracing failures to their true root cause rather than the apparent one, e.g. a hidden merge conflict that silently broke role-based access control, restoring full regression coverage
- Conduct independent security-focused code reviews of core business logic (database locking, tenant isolation, role-based access control), catching correctness and concurrency issues automated tests miss
- Write and verify regression test suites (pytest, Vitest) across both repos, confirming each new test actually catches its target bug before trusting it
- Reconcile overlapping feature work across multiple contributors on shared branches, making architecture calls between competing implementations and coordinating merge order across a two-repository system

PROJECTS

SleeveMap

[Link](#)

Next.js, TypeScript, PostgreSQL (Supabase), Strava API, Mapbox

- Designed and built a full-stack activity mapping platform integrating Strava OAuth 2.0, ingesting and normalising thousands of user activity records into a PostgreSQL schema
- Engineered a real-time webhook ingestion pipeline to sync new activities automatically, eliminating manual refresh and enabling near real-time updates
- Developed a multi-tenant public profile system using row-level security policies, enabling secure sharing of interactive route maps without authentication
- Implemented route planning features using Mapbox Directions API, including snap-to-road routing, GPX export, and heatmap overlays for training analysis

Mjolnir (Group Project)

[GitHub](#)

Next.js, TypeScript, BigQuery, Google Cloud, Gemini API

- Collaborated in an agile engineering team to design and implement a log analysis and observability platform for large-scale datasets

- Built interactive analytics dashboards using BigQuery datasets and ApexCharts to visualise system behaviour and anomalies
- Integrated Google Gemini API to provide AI-assisted log analysis and anomaly explanation features
- Worked in sprint-based development cycles with code reviews, task breakdowns, and feature delivery milestones

ADDITIONAL EXPERIENCE

NCAA Division I Athlete 2022 – 2026
University of Tulsa & La Salle University

- Competed at NCAA Division I level while completing a full-time Computer Science degree
- Operated in high-performance, team-driven environments requiring discipline, consistency, and execution under pressure

Cook / Facilities Assistant 2025 – 2026
La Salle University Christian Brothers

- Supported daily operations including food preparation and facilities maintenance in a residential community setting

Waterways Labourer 2021
CityCare Water, Christchurch NZ

- Performed field maintenance work supporting municipal waterway infrastructure and environmental upkeep

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, TypeScript, SQL

Frontend: React, Next.js, HTML, CSS

Backend / Data: Node.js, PostgreSQL, REST APIs

Tools: Git, Docker, Supabase, Vercel, Postman