Tyler Lafayette is a full-stack software developer focused on delivering high-quality, scalable code for large-scale applications.

tylerlafayette@gmail.com

/TylerLafayette

Experience

2023–2024

Software Development Intern

Alchemist Ventures, LLC

Developed the frontend and backend platform for DatumXpress, an accounting tool which allows users to export and import financial data between various accounting and CRM softwares, in JavaScript. Collaborated with a fully-remote team to deliver scalable software in an Agile framework.

2022–2023

Full-stack Software Engineer Intern

Leverage

Shipped several features into a Node.JS + React/Redux codebase with a remote team in a fast-paced startup environment. Designed and implemented critical UI and backend used by clients to track over 100,000 purchase orders in real-time.

2020–Present

Full-stack Software Engineer Consultant

Etalon Diagnostics

Consulted on various projects ranging from genetic analysis pipelines in Python and R to full-stack web design and development using .NET Core, Node.js, and React. Currently an on-call consultant.

2019

Research Intern

Stanford Compression Forum

Participated in Stanford University's SHTEM internship program. Worked with a team to research and implement efficient compression encoding software to process more than 10 TB of genetic data and analyze patterns of repetition.

Education

B.S. in Electrical Engineering and Computer Science, UC Berkeley

August 2021-May 2025

Relevant coursework

COMPSCI 61A–61C: The Structure and Interpretation of Computer Programs, Data Structures, Computer Architecture
COMPSCI 186: Introduction to Database Systems
COMPSCI 188: Introduction to Artificial Intelligence
COMPSCI 164: Programming Languages and Compilers

Skills

Programming languages & frameworks

Rust, Go, JavaScript, Haskell, C#/.NET, Python, Java, TypeScript, React, Erlang, Elixir, Node.js, HTML/CSS, C/C++

Databases

MySQL/MariaDB, PostgreSQL, MongoDB, Cassandra, Redis

Cloud infrastructure & tools

Amazon AWS, Google Cloud Platform, Terraform, Docker, Datadog, Git