

William Callahan

CFA CHARTERHOLDER · CFP® PROFESSIONAL

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PROFESSIONAL SUMMARY

Software engineer and leader experienced in data, search, finance, and AI-powered web applications. Deep background in product development and quantitative research.

PROFESSIONAL EXPERIENCE

aVenture

2023 - Present

Founder & CEO

· San Francisco, California · aventure.vc

- Building a research platform with data on venture-backed startups and their investors to help founders and investors make better decisions
- Backed by Techstars

TS Bank

2021 - 2022

President, wealth management division

· San Francisco, California / Omaha, Nebraska · tsbank.com

- Led unit following acquisition/sale of Callahan Financial Planning

Callahan Financial Planning

2010 - 2021

Founded and led an SEC-registered investment advisor

· San Francisco, California / Omaha, Nebraska · tsbank.com

- Provided comprehensive financial planning and investment advisory services, including proprietary cloud software for managing complex/nuanced data sets in such relationships
- Managed \$225 million in assets on acquisition

Mutual First Federal Credit Union

2020 - 2021

Board member

· Omaha, Nebraska · mutualfirst.com

- Served on the board of directors, including as treasurer, overseeing the strategic direction and financial health of the credit union
- Primary focus on product differentiation and pricing strategy, asset-liability management strategies, and growth strategy

Morningstar

2015 - 2019

Advisor to the executive team

· Chicago, Illinois · morningstar.com

- Provided strategic and specific direction to the executive team on the development of new SaaS offerings for advanced investment research and portfolio management

HIGHLIGHTED TECHNICAL PROJECTS

aVenture.vc

[View](#)

ANALYTICS DATA PLATFORM RESEARCH TOOL BUSINESS INTELLIGENCE SAAS WEB APPLICATION

Private-market research platform indexing tens of millions of records across 500+ attributes, with live ETL that ingests news, company data, and investor updates daily. Built with Node.js, Next.js, TypeScript, Zod, PostgreSQL, and supporting services.

williamcallahan.com

[View](#)

GRAPH INDEX S3 OBJECT STORAGE INTERACTIVE APP TERMINAL UI MDX BLOG SEARCH

Personal site with a graph index of thousands of JSON documents that crawls external links to fetch logos and OpenGraph images on demand. Built with the Next.js App Router and TypeScript; Dockerized for cloud deployment.

Researchly

[View](#)

AI WEB SEARCH CHAT ASSISTANT OPENAI GPT RAG

Web app that merges search with an AI chat assistant: select results, then ask GPT/Groq/Gemini using that grounded context. Built with Next.js, TypeScript, Convex Database, and Vercel AI SDK, with heavy server-side scraping/parsing to filter only relevant context.

ComposerAI

[View](#)

AI EMAIL CLIENT LLM PRODUCTIVITY TASK AUTOMATION VECTOR SEARCH

AI-native email client that indexes every message in Qdrant for semantic and BM25/BM42 search. Offers full-mailbox search, drafts cited replies, and surfaces follow-up tasks from context. Built with Svelte + Vite and Spring Boot.

Java Chat

[View](#)

AI CHAT RAG EDUCATION STREAMING WEB APP

AI-powered Java learning chat app with streaming answers, citations, and guided lessons grounded in ingested documentation (RAG). Built with Spring Boot (WebFlux), Svelte, and Qdrant.

Brief

[View](#)

TERMINAL UI CLI CHAT CLIENT OPENAI JAVA OPEN SOURCE

Terminal ChatGPT client for fast, keyboard-first chat. Includes slash commands, tool execution, and support for OpenAI-compatible providers (OpenRouter, Ollama, LMStudio). Location features powered by Apple Maps Java. Built with TUI4J and available via Homebrew.

TUI4J

[View](#)

TERMINAL UI TUI JAVA OPEN SOURCE DEVELOPER TOOLS FRAMEWORK

A Java terminal user interface framework inspired by Charm's BubbleTea (Go). Implements The Elm Architecture with Model/init/update/view patterns. Includes ports of bubbles (UI

components), lipgloss (styling), and harmonica (spring physics animations). Published on Maven Central.

Apple Maps Java SDK

[View](#)

JAVA

SDK

APPLE MAPS

GEOCODING

REST API

OPEN SOURCE

A lightweight, unofficial Java SDK for the Apple Maps Server API. Provides geocoding, search, autocomplete, directions, ETA, and place lookup for backend/JVM applications. Automatically exchanges long-lived JWT tokens for short-lived access tokens with refresh. Published on Maven Central.

EDUCATION

Creighton University

2016

Master of Investment Management & Financial Analysis (MIMFA)

OMAHA, NEBRASKA

Creighton University

2016

Master of Business Administration (MBA)

OMAHA, NEBRASKA

University of Nebraska

2011

BSBA in Corporate Finance, Banking & Financial Markets, Investment Science & Portfolio Management

OMAHA, NEBRASKA

CONTINUING EDUCATION (SELECTED)

Stanford University

Machine Learning for Business with Python

2024

Large Language Models for Business with Python

2024

User-Centered Design for AI Applications

2024

College of San Mateo

Programming Methods - Java

2025

Object-Oriented Programming - Java

2025

Python Programming

2025

Unix & Linux Systems

2025

Data Structures & Algorithms

2025

University of California Berkeley

Web Development (JavaScript / TypeScript)

2025

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

Executive Education – Venture Capital Decision Making

COLUMBIA BUSINESS SCHOOL • 2022 • NEW YORK, NEW YORK

Certification in Startup Law & Venture Capital Investing

Chartered Financial Analyst (CFA) Charterholder

CFA INSTITUTE • 2016 • CHARLOTTESVILLE, VIRGINIA

Certified Financial Planner (CFP) Professional Certification

CFP BOARD • 2012 • WASHINGTON, DISTRICT OF COLUMBIA

TECHNICAL FOCUS

Languages & platforms

- TypeScript (JavaScript)
- Java
- Python
- SQL
- PostgreSQL
- Qdrant

Frameworks & runtimes

- Next.js
- Node.js
- React
- Svelte
- Spring Boot
- Vite
- Docker

AI systems & data

- Hybrid search (BM25/BM42 + embeddings)
- Retrieval-augmented generation
- LLM tool chaining
- Vector indexing
- Self-hosted LLM inference
- Semantic meaning extraction

Investment, finance, & risk analytics

- Asset-liability management
- Quantitative research
- Factor modeling
- Portfolio optimization
- Performance attribution