

TypeScript & Modern JavaScript

Move beyond vanilla JS. Type safety, generics, advanced patterns, and writing maintainable code at scale.

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Program Overview

PRICE

\$3,000

DURATION

6 weeks

FORMAT

Hybrid

LEVEL

Intermediate

Move beyond vanilla JS. Type safety, generics, advanced patterns, and writing maintainable code at scale. This professional track is structured for adult learners who need practical, career-relevant depth without academic abstraction. Delivered as a hybrid experience, the course combines guided milestones, implementation reviews, and applied exercises aligned with modern AI, engineering, and technical leadership work.

Outcomes

- Use TypeScript to model application data and reduce runtime bugs.
- Write safer APIs, components, and utilities with advanced typing.
- Understand modern JavaScript language features and patterns deeply.
- Refactor messy logic into maintainable, scalable code.

Includes

- 6 hybrid weeks with refactoring labs and type design reviews.
- Hands-on exercises covering generics, unions, narrowing, and inference.
- Migration guidance for JS-to-TS projects.

- Reference patterns for shared front-end and back-end code.

Syllabus

WEEK 1

Modern JavaScript Baseline

Refresh modern syntax and patterns that set up cleaner TypeScript adoption.

Topics: Modules, Async patterns, Destructuring and spread

WEEK 2

Type System Fundamentals

Use interfaces, type aliases, unions, and inference to model data safely.

Topics: Core types, Interfaces, Type narrowing

WEEK 4

Advanced Types and Generics

Design flexible, expressive types for reusable code and public APIs.

Topics: Generics, Mapped types, Utility types

WEEK 6

Scaling Maintainable Code

Refactor real application code for clarity, safety, and team readability.

Topics: Architecture patterns, Typed APIs, Migration strategy

Instructor

Daniel Kim

Daniel helps teams modernize large JavaScript codebases and teaches engineers how to use types for clarity, speed, and safety.

This Blotou Intelligence syllabus is an admissions overview for planning and evaluation. Final cohort dates, live session timing, assessments, and platform access details are shared in the welcome packet after enrollment.

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