

## Fix.ai Accelerator by BRIGHTWAY

### Learn. Build. Compete with BRIGHTWAY's Accelerator.

A modular accelerator where participants acquire skills in automated testing and artificial intelligence, and compete in teams to develop an autonomous testing system.

A unique program combining software testing fundamentals with Python automation, introducing cutting-edge methods, AI-driven autonomous testing, and advanced practices from the world of artificial intelligence.

### What is BRIGHTWAY's Accelerator format?

**BRIGHTWAY's** Accelerator format is designed to provide participants with intensive, integrated training—combining theory and hands-on practice—in a unique modular structure.

The training is divided into five practical modules, with each one building an additional layer of skills in preparation for the main challenge.

At the end of the program, participants are divided into three teams. Each team develops an AI-based autonomous testing system.

The teams then compete in a unique final challenge, where the winner is the team that builds the smartest "Captain"—a system capable of making real-time decisions and achieving its goals in testing a web system.

### Course Details

- **Duration:** Approximately 120 academic hours
- **Start Date:** August 1, 2025
- **Instructor:** Saleem Khoury
- **Structure:** Two meetings per week
- **Practical Project:** A hands-on assignment that gives you real-world experience to meet job-market requirements and help you advance in hiring processes or earn a promotion in your current role.

### Modules

#### Module 1: QA

- **Fundamentals of Software Testing (QA)** – QA concepts and testing methodologies
- **Test documentation** – STP documents, understanding workflows, and writing documents
- **Product lifecycle** – specifications, document analysis, and requirements tree extraction
- **Flowcharts** – writing test scenarios (STD)
- **STP + TestRail**
- **Bug lifecycle** – bug reporting using Jira
- **Introduction to Web & Mobile Testing** – overview of the web and mobile domains



## Module 2: Automation Development

- **HTML web pages** – understanding basic structure, basic exercises
- **Python fundamentals and development environment** – setting up the dev environment, writing first code, data types, and basic structures
- **Control flow, conditions, functions, and code modularity** – conditionals, loops, control statements, basic logic, function creation, parameters, and return values
- **Useful Python libraries** – usage of random, math, datetime, requests
- **Introduction to Selenium** – setting up the environment
- **Selenium – automated web testing** – using Selenium to run browser-based test scripts
- **Automated Testing with Python** – using Python and Selenium: element location, basic and advanced actions, working with the unittest framework and pytest, building a POM module, handling files and forms, running in Headless Mode (no GUI), and generating reports

## Module 3: AI

- **Introduction – Prompt Engineering** – how to craft effective prompts for QA tasks (bug reporting, test documentation, etc.)
- **Integrating with LLMs** – working with OpenAI, DeepSeek, Claude, and others
- **Combining Selenium and LLMs** – using APIs to run intelligent real-time tests
- **Advanced development with LLMs** – structuring responses and writing advanced prompts

## Module 4: AI Project

- **Final project in Automation and AI** – developing a testing system, full documentation, and an interactive bug report
- **Teamwork** – working on a large-scale project with a team of 4–5 engineers
- **Best Autonomous AI Captain Competition** – team captains compete in executing tests and identifying bugs, with judging by high-tech industry experts

## Module 5: Soft Skills

- **Enrichment workshops and independent work sessions**



## Who Is This For?

- Students and graduates of technology degrees
- Manual QA professionals or programmers interested in automation
- Anyone aiming to combine testing, automation, and AI

## Admission Requirements

- Previous software-development knowledge obtained in one of the following ways:
  - A bachelor's degree in software development
  - A technology certificate in software
  - One year of practical experience
- Passing score on the admission exam

## Who We Are

At **BRIGHTWAY** we help early-career and experienced engineers advance their careers through practical training, real-world projects, and international experience. Through personalized guidance, interview preparation, and exposure to professional work methodologies, we assist students in landing their first job, making a leap to the next role, or launching into entrepreneurship—all while upholding values of inclusivity, integrity, and collaboration.

Get to know us more—coming soon on our website: <https://www.bright-way.ac>

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CAREER GROWTH STUDIO

