

Software Development Academy Training Curriculum – Second Semester

Month	Broad Skill	Topics	Objectives	Weekly Focus Areas
		analysis (Pandas, NumPy).	manipulation and analysis.	Wk. 3: Advanced queries, subqueries, joins; Introduction to pandas in Python. Wk. 4: Database design practice with SQL and real-world datasets; Data analysis project combining SQL and Python.

One Month Internship Schedule

Week	Objectives	Activities	Expected Outcomes
Week 1	Orientation, Shadowing & Onboarding	<ul style="list-style-type: none">▪ Introduction to the team and tools▪ Overview of company projects▪ Setup of development environment▪ Shadow senior developers on daily tasks (code reviews, meetings)	Students become familiar with the team, tools, and project goals; gain an understanding of the real-world workflow.
Week 2	Hands-on Task with Mentorship	<ul style="list-style-type: none">▪ Assign small tasks (e.g., bug fixing, creating simple features)▪ Pair programming with senior developers▪ Begin attending daily stand-ups and retrospectives	Students contribute directly to projects under guidance, reinforce their learning, and experience team-based work.
Week 3	Solo Development on a Medium Task	<ul style="list-style-type: none">▪ Work on a medium-sized task individually (with mentor support)▪ Focus on best practices for version control and collaboration▪ Participate in code review for their contributions	Students gain autonomy, apply problem-solving skills, and improve their ability to work independently in a supportive environment.
Week 4	Project Integration, Testing & Reflection	<ul style="list-style-type: none">▪ Integrate feature with the main codebase▪ Participate in testing and debugging▪ Feedback session and final presentation of learnings and contributions	Students complete a full cycle from development to integration, gain feedback from senior developers, and enhance presentation and reflection skills.