

Skills Inventory

Technology: Breadth of exposure is the primary goal. The matrix below shows the experiences of the average i.c.stars intern with different areas of technology during the program:

Skill	Average i.c.stars Experience	Familiar with concept	Applied to Cycle/Internship Project
Content Management Systems (CMS)	Content and Template driven websites and community sites	x	
Google analytics	Evaluating traffic patterns to optimize site design	x	
HTML5	Client driven prototype web-based, responsive application development		x
CSS/CSS3	Styling websites; client driven prototype responsive, web-based application development		x
JavaScript	Game development; client driven prototype responsive, web-based application development, typically via Bootstrap		x
JQuery	Game development; client driven prototype web-based application development via Bootstrap		x
Backend Development	Connecting to a database; client driven prototype application development, e.g. .NET, node.js, JSON, react.js, angular.js, ionic.js	x	*
Data Modeling	Data mapping and database concepts; client driven prototype application development		x
SQL	Queries and views implemented in SQL Server and through an open source RDBMS such as MySQL		x
SQL Server	SQL Server Management Studio for client driven database development, Geek Week query building,		x
UX/UI Design	Design mockups and wireframes. Knowledge of rapid prototyping tools. Implementation of 4+ mockups/wireframes to client-driven prototype website project		x
Object-oriented Programming (OOP)	Relationship between parent/child; relationships between database, backend development, and data output within the frontend		x
Python	In support of teaching programming and programming logic. Additional workshops may cover topics such as how Python is used in backend development.		#

* Backend material is covered to the extent required by a particular project.

Python may not directly tied in with project but is part of the curriculum.

Project Management, Business Analysis, Quality Assurance/Software Testing:

Skill	Average i.c.stars Experience	Familiar with concept	Applied to Cycle/Internship Project
Project Management	awareness of Agile/SCRUM terminology; understanding waterfall vs. agile pm processes; Agile approach leveraged as part of client driven prototype application development		x
Agile Development Tools	Trello used for teams to organize project requirements and workflow		x
User Stories	User stories for client project		x
Requirements Analysis	Analyzing client RFP to produce detailed project requirements		x
User Acceptance Testing	UAT for client project		x
Software Testing	For client project, creating a test plan based on written project requirements (FRD)		x
Business Analysis	Reporting in EXCEL: use of formulas, pivot tables etc.	x	x
Marketing/UI Development	Develop a UI using client brand guidelines for web-based applications		x
Business Analysis	Process modeling, translating user stories into business and functional requirements	x	x