1.125 Software Engineering & Architecting

Programming the Web

SES #	Date	TOPICS	HOMEWORK
LECT 1	Thu, Sep 6	Introduction & Course Overview	HW00: Install VSCode
LECT 2	Tue, Sep 11	Browser Basics, HTML , JavaScript	HW01: Web Page - HTTP Server
LECT 3	Thu, Sep 13	Arrays and Objects	
			HW01 DUE, HW02 OUT
LECT 4	Tue, Sep 18	Functions and Call Styles	HW02: Walk JSON Data
LECT 5	Thu, Sep 20	Callbacks, Map Reduce Pattern, Async	
			HW02 DUE, HW03 OUT

Open Source, Libraries and Packages

SES #	Date	TOPICS	HOMEWORK
LECT 6	Tue, Sep 25	Nodejs, NPM and GitHub	HW03:Messaging Service
LECT 7	Thu, Sep 27	WebSockets and REST APIs	
			HW03 DUE, HW04 OUT
LECT 8	Tue, Oct 2	Data Services	HW04: Three Tier Apps
LECT 9	Thu, Oct 4	Cloud Services, Docker and Lambda Functions	
			HW 04 DUE
Holiday	Tue, Oct 10	Columbus Day	No HW this week

Blockchain

SES #	Date	TOPICS	HOMEWORK
LECT 10	Thu, Oct 11	Hashes and Merkle Trees	
			HW05 OUT
LECT 11	Tue, Oct 16	PKI and Encryption	HW05: MetaMask
LECT 12	Thu, Oct 18	Smart Contracts on Ethererum	
			HW05 DUE, HW06 OUT
LECT 13	Tue, Oct 23	Initial Coin Offering	HW06: Project Proposal
LECT 14	Thu, Oct 25		
			HW06 DUE, HW07 OUT

Computing Today

SES #	Date	TOPICS	HOMEWORK
LECT 15	Tue, Oct 30	Asynchronous Computation - Byzantine Generals	HW07: Project Deliverable 01
LECT 16	Thu, Nov 1	IPFS and Distributed Hash Tables	
			HW07 DUE, HW08 OUT
LECT 17	Tue, Nov 7	Future of Work Discussion	HW08: Project Deliverable 02
LECT 18	Thu, Nov 8	Why is Software Hard? Agile, Machine Learning	
			HW08 DUE, HW09 OUT

HW09 is Report 2 on Kogs

Project

SES #		TOPICS	HOMEWORK
QUIZ	**Tue, Nov 13**	**Project**	**HW09: Project Deliverable 03**
LECT 19	**Thu, Nov 15**	**Project**	
			HW09 DUE
LECT 20	**Tue, Nov 20**	**Project**	HW05: No HW this week
LECT 21	Thu, Nov 22	Thanksgiving Vacation	
			HW10 OUT
PROJ 01	**Tue, Nov 27**	**Project**	**HW10: Project Deliverable 04**
PROJ 02	**Thu, Nov 29**	**Project**	
			HW10 DUE
PROJ 04	**Tue, Dec 4**	**Project**	
PRESENT	**Thu, Dec 6**	**Project Presentations**	
			Term Project Due