

TECHNOLOGY SERIES - T109

## Full Stack Development in Web3 with the Permaweb

### Summary

Web3 is the next generation of application development; imagine building secure apps from day one and accessing open data and the ability to provide services to users in a decentralized way. No Servers, No Databases, No Cloud; you simply build your app and publish it to the Permaweb! In this workshop, we will build a full-stack web3 application using standard web tools and services.

### Outline

- Introductions
- What is Web3?
- Self-sovereign Users and Digital Wallets
- Arweave Basics - Uploading Data
- Arweave Basics - Querying Data with GraphQL
- SmartWeave Contracts
- Using Protocols
- ArNS and the Permaweb
- Summary and review

### Prerequisites

- At least 6 months software development experience
- Solid understanding of:
  - NodeJS & JavaScript
  - JSON
  - HTTP
  - Git & Github account
- Code editor (recommend VSCode)

### About your presenter

Tom Wilson is the Founder/CEO of [hyper63](#), a company that provides hyper a meta-service framework to remove the pain of working with cloud services. Also, Tom is a Founder in Residence for Forward, a Web3 Foundation. Before hyper, Tom was the CTIO with Tabula Rasa HealthCare Inc (TRHC). During this period, Tom served the local technology community, inspiring and mentoring engineers. Connect with Tom on [LinkedIn](#).

### Vitals

Cost:	\$50 (\$40 CDC members)	Location:	Flagship @ Charleston Tech Center 997 Morrison Dr, 2 <sup>nd</sup> Floor Downtown Charleston
Class length:	5 hours		
Class size:	20 persons		
Difficulty:	Intermediate	Parking:	CTC Garage ( <i>immediately adjacent</i> ) 4 Conroy Street
Laptop:	Recommended but not required		

Questions? 843.607.1264 or [info@charlestdigital.com](mailto:info@charlestdigital.com)