# Web Development Session-4









## Web 1 - Static Web

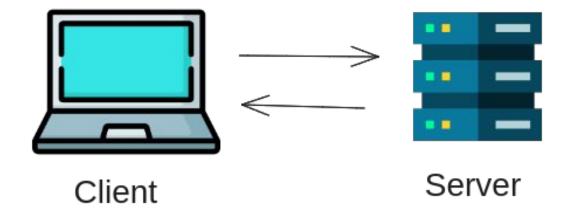
Read only



## Web 2: Social Web

Read-Write





Overlaking resid Traditional carmakers speed towards

Putin set for victory amid

rigging claims

booth in Nouven tenterday as Russia

ng to an exit ped published by the Polic Oninion Research Contro. Mr Potin

of the sate. The Central Election Com-

Hencever, there were thousands of

roccos, such achallot stuffing Kremlin

ides had not a target of 70 per cent of the

ship up support. In Moscow, food stalls

effectals gave out background chocolate

polling stations offered free tea and

### Cathy Newman On Jordan Peterson, trolls & Max Moslev

Pressure grows on Facebook and data firm over mass breach of personal files

mma Graham-Harrison than 50m Facebook erofiles were hat worked with Donald Trump's resoure last night with calls for new vast data breach that affected tens of

E PHY DOWN

12, 122000 8

call the heads of both companies - to give further testimony. Bills intervention came after a nel 4 News expose in which Nix, the thistleblower spoke to the Observer company CDO, is said to talk unguardentary committee investigating false and described how the profiles, edly about the company's practices

on both sides of the Atlantic - in that may have influenced voters in the US, a state attorney general has called for investigations and greate The pressure comes amid report Cambridge Analytica is trying to stop

Cambridge Analytica the broadcast of an undercover Chan

The disclosures caused outrage of meetion, including one with the ments and improve transparence chief executive. The report is due to about what ad Labour said news of the yest data

put out and who is paying for them what "news" - and who's writing the cheques," said Liam Byrne, shadov digital minister, writing in today' Guardian. He plans to put

Data watchdog

### Facebook feels the pressure over claims its data helped Trump win



Metrose in £1hn pension pledge to GKN The tororound specialist has stepped up its bottle to win support for its hostile £85m cash and share hid for the engineering company, with a picalge to pump (Alba into its pension fund. - Page 16

Davis to hold Brussels transition talks Britain's chief Breait negotiator will hold segont. talks in Brussels today to try to secure the exit. transition deal demanded by business, until fears of a last minute row over the irish border - recall

Weir seeks to axe LTIP pay schemes The organizating company will revive the push to referen executive pay with a plan this week to ditch the reward scheme that has been linked to

encountry boardmoon remonstration -- exact st Johnson steps up Russia poison claim The foreign accestary has sai the UK will step up sanctions

on he claimend Stones had More work on compliance at Barclays The bank's board has declared there is still more

work to do to improve controls and compliance, it called on senior managers to try harder to hold reflected table to account when they fall short... your v

Beiling names new central bank chief economist Yi Gong as central bank chief, ensuring policy continuity as Brijing success aggressively to control risk in its limancial system. - roos a

Fed policymakers to weigh rate moves Reserve this work as policymakers discuss little interest rates further than had been previously

JS Wade Indance with Canada (Stro)

the U.S. Sat. & relighbour for the patriture years. A services surplus recor flues offsets

Its piefair in people

# opens investigation into Google SIMONCARSWELL Public Affairs Editor Alphabet to shut Google+ after user data expose

the consumer version of its social network Google+ after announcing data from up to 500,000 users may have been exposed to external developers by a bug that was present for more than two years in its systems.

The company said in a blog on Monday it had discovered and patched the leak in March of this year and had no evidence of misuse of user data or that any developer

Interfaces (API) partly due to fears of regulatory scrutiny, citing unnamed sources and internal documents.

Google said it had reviewed the issue, looking at the type of data involved, whether it could accurately identify the users to inform, whether there was any evidence of misuse, and whether there were any actions a developer or user could take. "None of these thresholds were met in this instance," it said. "We found no evidence that



Google CEO Sundar Pichai was briefed on the plan not to notify users about the breach after an internal committee had reached that decision

memo, prepared by Google's legal and policy staff and shared with senior executives, warned that disclosing the incident would likely trigger "immediate regulatory interest" and invite comparisons to Facebook's leak of user information to data firm Cambridge Analytica.

Tilon Music of the sea

floats electric boats

Allegations of the improper use of data for 87 million Facebook users by Cambridge Analytica, which was hired by President Trump's

ie advertisi number oncerning

### Web3: The new internet?

The term "Web3" was coined in 2014 by Ethereum co-founder Gavin Wood

- Read Write Own
- Blockchain technology provides decentralization





### DApps: What Web 3.0 Looks Like

As we move into the future, we find increasing need for a zero-trus interaction system. Even pre-Stooden, we had realised that entrusting our information to arbitrary entities on the internet was fraught with danger. However, post-Stooden the argument plainful falls in the hand of those who believe that large cognisations and governments routinely attempt to stretch and overstep their authority. Thus we realise that entrusting our information to organisations in general is a fundamentally broken model. The chance of an organisation not meddling with our data is merely the effort regular distincts their expected guiden. Given they tend to have an income model that requires they know as much about project as possible treally ill realise that the potential for converted to the contraction of the contrac

The protocols and technologies on the Web, and even at large the Internet, served as a great technology preview. The workhorses of SMTP, FTP, HTTPGS, PRH, HTML, Issuacript each holged contribute to the sex of trick cloud-based applications we see today such as Google's Drive, Feedbook and Twitter, not to mention the countless other applications ranging through games, shopping, banking and dating, However, going into the future, much of these protocols and technologies will have to be re-engineered according to our new understandings of the interaction

Web 2.0, or as might be termed the "post-Snowden" web, is a reimagination of the sorts of things that we already use the Web for, but with a findamentally different model for the interactions between parties. Information that we same to be public, we beyolds, Information that we assume to be approxive, we publish, Information that we assume to be approxive, we publish, Information that we assume to be public, we publish, Information that we assume to be public, we publish, Information that we assume to be public, we publish, Information that we assume to be public, we publish, Information that we assume to be public, we publish, Information that we assume to be public, we present the publish present that the publish information that we assume to be publish, we publish information that we assume the publish information that we

There are four components to the post-Snowden Web: static content publication, dynamic messages, trustless transactions and an integrated user-interface.

The first, we already have much of a decentralised, encrypted information publication system. All this does is take a short intrinsic address of some information (a hash, if we're being technical) and return, after some time, the information itself. Now information can be submitted to 0. Once downloaded, we can be quarated it is the right armounts nine the deadless is intrinsic to 11. This static publication system accounts for much of HTTPSI's job and all that of FTP. There are already many implementations of this technology, but the easiest to tele is that of Bit Torrent. Every time you called on an aganel thin of Bit Torrent, all over real lyding its felling your client to download the data whose intrinsic address (bash) is equal to it.

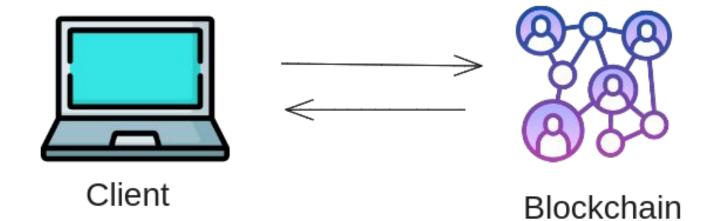
In Web 3.0, this portion of the technology is used to publish and download any (potentially large) static portion of information that we are happy to share. We are able, just as with Bit Torrent, to incentivise others to maintain and share this information, however combined with other portions of Web 3.0, we can make this more efficient and precise. Because an incentivisation framework is intrinsic to the protocol, we become (at this level, anyway) DDoS-proof by design. How's that for a bouns?

The second portion of Web 3 o is an identify-based pseudonymous low-level messaging system. This is used for communicating between people on the network. It uses strong-cryptography in order to make a number of guarantees and south emessages, they can be encrypted that in dientify's public key in order to guarantee only that identicode it. They can be signed by the sender's private key to guarantee that it does indeed come from the sender and provide the receiver with a secure receipt of communication. A shared secret can provide the opportunity to communicate securely, including between groups, without the necessity of proof receipt.

Since each of these provide ultimate message logistics, the use of transmission-protocol level addresses becomes needless; addresses, where once user or port together with IP address, now become merely a hash.

Messages would have a time-to-live, allowing the disambiguation between publication messages that one may wish to be 'alive' for as long as possible to guarantee as many identities see it and instant signalling messages that wish to be transmitted as quickly as possible across the network. Thus the dichotomy of latency and longevity is traded.

Actual physical routing would be carried out through an game-theoretic adaptive network system. Each peer attempts to maximise their their withe to other peers in the assertion that the other peers are valuable to their for free incoming information. A peer whose information is not valuable would be adsconnected and their soft take with a to not their with a town their peers are the second degree), peer, In order that a peer be more useful, messages with some specific attributes would be requested (e.g. of a sender address or topic—both unencypted—beginning with a particular bit string).



## Web3 Applications

- Brave Browser Privacy focussed web browser
- Odysee Video Streaming platform
- Minds Social media network
- **Uplandme** Gaming platform
- Mastodon Open source social network











# **WHAT**

# **ARE WE**

# **LEARNING**

HERE?

Web Page Development : HTML

Styling: CSS & tailwind

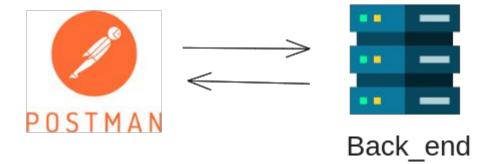
Interactive: JS



Back-end : Node JS , Express

Testing: Postman

Database : MongoDB



Front-end: React

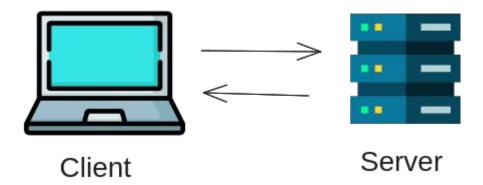
Styling: Tailwind



Front-end: React

Back-end : Node JS , Express

Database : MongoDB

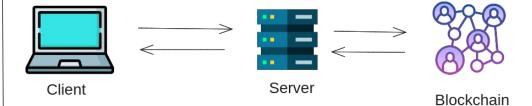


Front-end: React

Back-end : Node JS , Express

Blockchain: Ethereum &

Hyperledger





### Web2 Jobs

- Web Developer
- Front-end developer
- UI Developer
- React Developer
- Back-end Developer
- NodeJs Developer
- MERN Developer
- Full-Stack Developer

- Web Developer Intern
- Web Developer Trainee
- Technical Content Writing
- Teaching/ Training

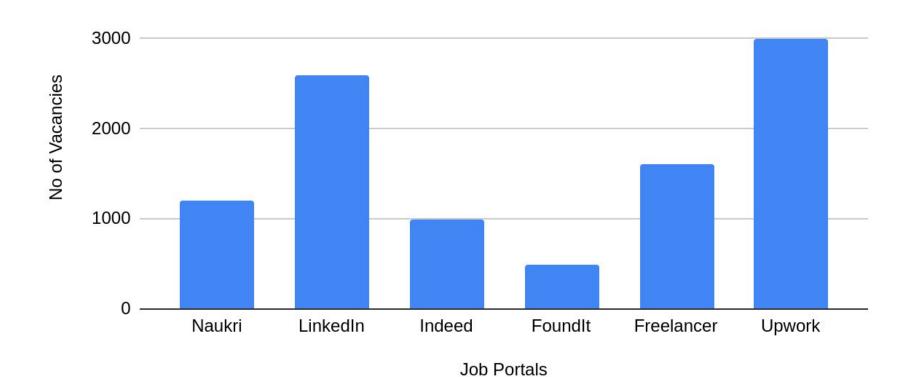
## Web3 Jobs

- Blockchain Developer
- Web3 Engineer
- Research Engineer
- Blockchain Intern
- Blockchain Architect
- Blockchain Consultant
- Blockchain Engineer

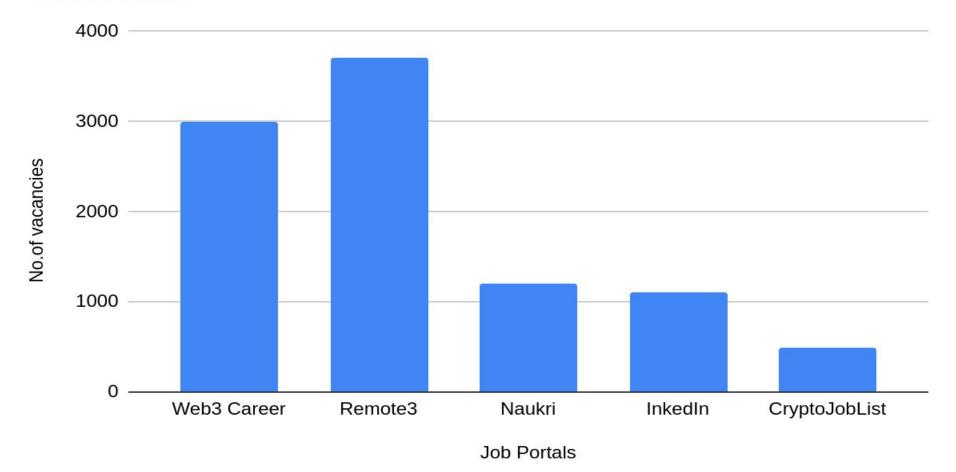
- Ethereum Developer
- Solidity Contract Developer
- Hyperledger Fabric developer
- Blockchain Trainer
- Blockchain Content Writer
- Blockchain Trainee
- Private Blockchain Developer

### Web2 Jobs





## Web3 Jobs





- W3Schools
- MDN Web Docs

GeeksforGeeks

- DevDocs
- Medium







- freeCodeCamp.org
- Net Ninja
- Telusko
- **Brototype**







