



# Panaverse DAO

**Global Web 3.0 and Metaverse Community**

Training Developers and Developing Products Globally for  
the Next Generation of the Internet

Zia Khan

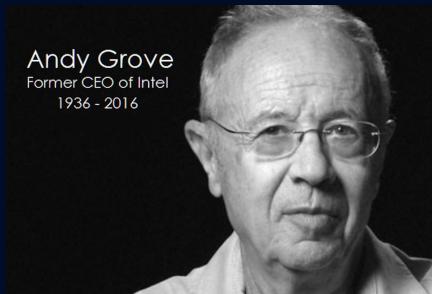
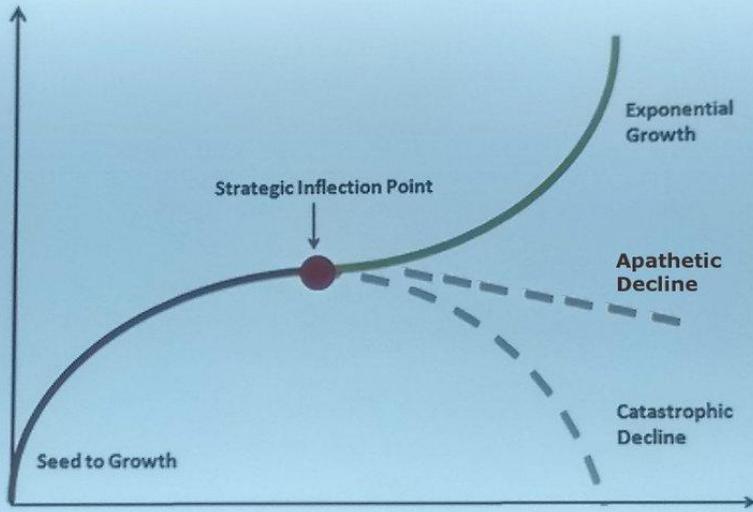
MA, MBA, MAC, MSE, CPA, and CMA

<https://www.linkedin.com/in/ziaukhan/>

[www.panaverse.co](http://www.panaverse.co)

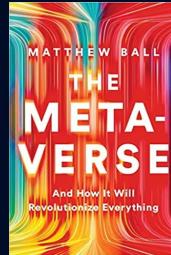


# Strategic Inflection Point



“The future of the internet: A massively-scaled, persistent, interactive, and interoperable real-time platform comprised of **interconnected virtual worlds where people can socialize, work, transact, play, and create.**”

**—Matthew Ball**



The Metaverse: And How it Will  
Revolutionize Everything

# Gross Metaverse Product (GMP)

**UAE's economic success to be measured using 'Gross Metaverse Product' instead of GDP**

**Khaleej Times**

**Minister of State for Artificial Intelligence, at Emirate's Metaverse Strategy at the Dubai Metaverse Assembly  
Wed 28 Sep 2022**

**“The metaverse is a 3D version of the Internet and computing at large.”**





BBC NEWS



# Metaverse Use Cases



SMART  
MANUFACTURING



HEALTHCARE



EDUCATION



DEVELOPER/  
CREATOR ECONOMIES



VIRTUAL  
ADVERTISING



VIRTUAL SPACES/  
COMMUNITIES



SOCIAL  
COMMERCE



DIGITAL EVENTS/  
CONCERTS/TOURISM



VIRTUAL CITIES/  
PUBLIC SERVICES

# 13 Trillion

Citi estimates that total addressable market for the Metaverse Economy could grow from \$8 Trillion to \$13 Trillion with 5 billion unique global users by 2030.

[Metaverse and Money: Decrypting the Future](#)



# Metaverse Market Potential

Metaverse: narrow definition  
2030 VR/AR headset users

900mn-1bn



Total addressable market estimate

\$1tn-\$2tn

Metaverse: broad definition  
2030 unique internet users

5bn



Total addressable market estimate

\$8tn-\$13tn

# Money in the Metaverse

The Metaverse will include existing forms of payments such as credit cards with Fiat money.

In addition, new forms of payments will be accepted:

- Cryptocurrency & Tokens
- Stablecoins
- Central Bank Digital Currencies (CBDCs)



## In-Game Tokens



### Examples

Robux, Minecraft,  
Linden dollars

### Key Use Cases

Gaming

### Limitations

Withdrawal Limits,  
Centralized  
Platform T&C, No  
Interoperability

## Cryptocurrency



### Examples

Bitcoin, Ethereum,  
Polygon, etc.

### Key Use Cases

Virtual lands, NFTs,  
Gaming, DeFi

### Limitations

Volatility, Energy  
Usage (Proof-  
of-Work based),  
Anonymity and  
AML Concerns

## Stablecoins



### Examples

USDT, USDC, Dai,  
BUSD

### Key Use Cases

DeFi, International  
Payments,  
Settlement Currency  
for Trading,  
Entertainment,  
Shopping, Tourism

### Limitations

Anonymity and  
AML Concerns,  
Collateralization  
Requirements

## CBDCs



### Examples

e-CNY, e-Naira,  
Sand Dollar

### Key Use Cases

Domestic  
Payments, Targeted  
Subsidies, Public  
Affairs, Healthcare,  
Tourism

### Limitations

Predominant  
Domestic Use Case  
a Challenge on  
Open Metaverse

## Fiat Money (Current)



### Examples

USD, GBP, EUR, CNY

### Key Use Cases

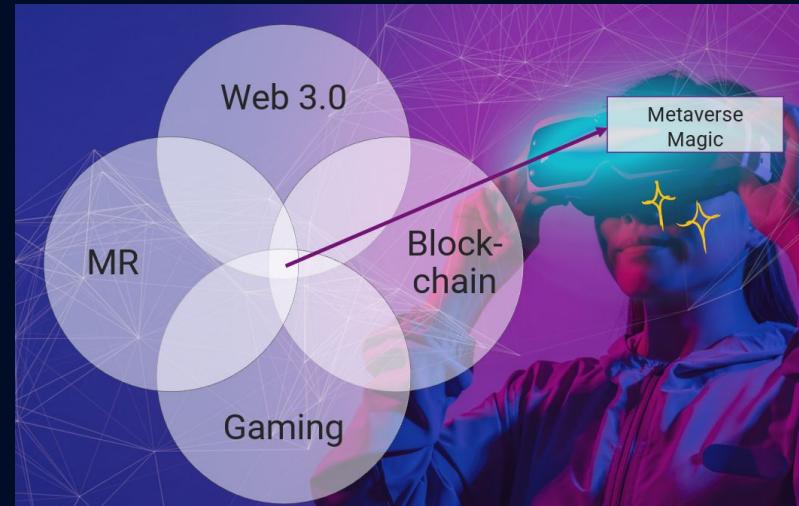
Traditional  
Financial Services,  
Credit Cards  
for Consumer  
Protection-Linked  
Use Cases

### Limitations

Non-Tokenized,  
Account-Based,  
Micro-Payments  
Tough

# What does Web 3 have to do with Metaverse?

- Based on ownership and decentralization and facilitated via blockchain, Web3 refers to the conceptual third iteration of the internet.
- The so-called “Open Metaverse” is built upon blockchain – mainly the Ethereum chain – and overlaps with Web3.
- Many Web2 centralized platforms will play an important role in the Metaverse, and even Web3 today relies on elements of centralization.



# What's the Role of NFTs in the Metaverse?

- NFTs in the Metaverse enable a form of sovereign ownership for users/owners and are
  - Tradeable
  - Composable
  - Immutable
  - Mostly interoperable
- Increased interest from gamers, investors, and corporates in the NFT space in recent months.
- NFTs in the Metaverse are virtual items stored in a digital wallet that can be taken everywhere within the Metaverse.



# What's the Role of AI in the Metaverse?

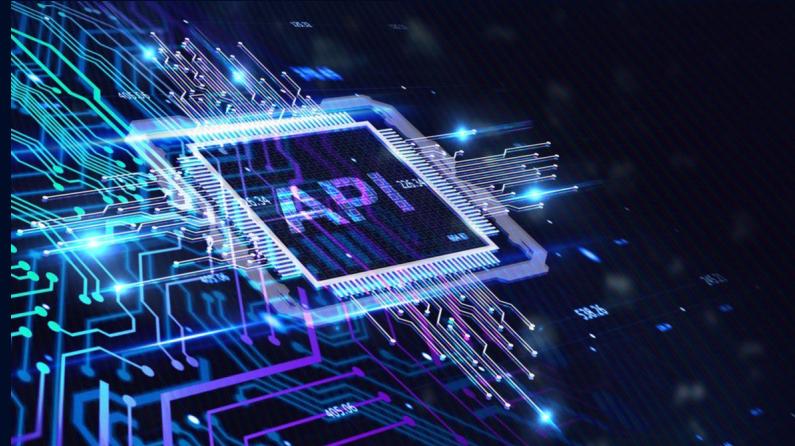
- AI for immersive digital worlds
- AI as a creative partner
- Intelligent networking
- Smart hyper-personalized games, experiences, education and welfare



# What's the Role of APIs in the Metaverse?

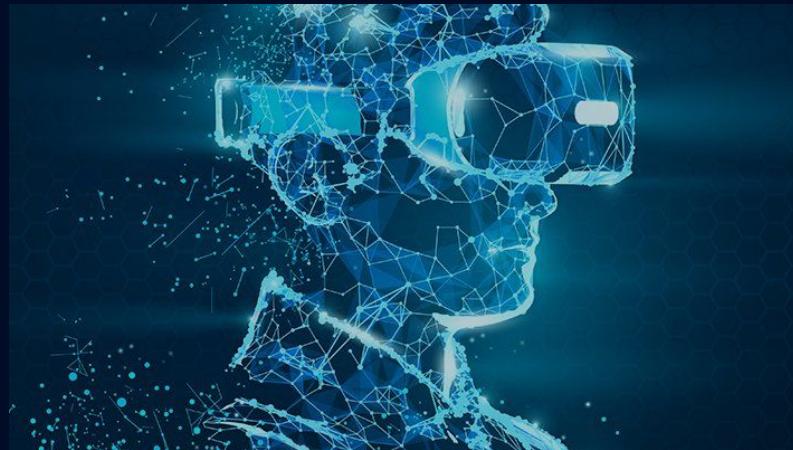
APIs will:

- Help create the Metaverse.
- Speed up immersive experiences development time and cut costs.
- Be used by Metaverse Developers to change product code without needing to start from scratch.
- Be used more heavily in the future, as the Metaverse proliferates.
- Be a fundamental building block of Metaverse, Web 3.0 and the future of the internet.



# What's the Role of Cloud Computing in the Metaverse?

- The essence of the Metaverse is still cloud computing.
- Scalable AI and APIs can only be built economically on the cloud.
- Only Serverless Cloud Computing can meet the scalability requirements of the Metaverse.
- What Metaverse itself needs is computing, storage, machine learning, etc., which are inseparable from cloud computing.
- The architecture of Metaverse will be event-driven which means it will be a Serverless Metaverse.





# Global Tech Talent Shortage

- The global talent shortage already amounts to 40M skilled workers worldwide.
- By 2030, the global talent shortage is predicted to reach 85.2M workers. Companies worldwide risk losing \$8.4T in revenue because of the lack of skilled talent.
- According to a CNBC report, the software developer shortage is alarming in 2022. The rate of unfilled IT jobs in USA increased to 918,000 vacancies at the end of 2021.
- Another report noted that by 2030, the number of software job vacancies would rise by almost 22%. The average growth rate of software developers in the USA is only 8% right now, and that clearly emphasizes there is already an overwhelming and severe shortage of skilled workers.



**85 Million  
By 2030**

# So who will build the Metaverse?



# A Global Mass Developer Training Program will Solve the Talent Shortage



# Panaverse is Unlike Any Other Program



EARN  
WHILE YOU  
LEARN

# The Panaverse Team

**Faculty:** Daniyal, Zia, and Ali.

**Remote Faculty:** Hira and Adil

**Technical Consultants:** Zeeshan, Moshin, Aamir, Arsalan, Waris, Murtaza, Uzair, Tanzeel, Hasan, and Mateen.

**Panaverse CEO:** Hamzah Syed (Also COO of Section B)

**COO Section A Tuesday Karachi Class:** Mubashir Ali

**COO of all sections will be selected soon.**

# **Study Plan**

- **4 Hours of Onsite Classes per Week**
- **2+ Hours of Live Online Classes per Week**
- **Pre Recorded Videos**
- **Presentation Projects**
- **Coding Projects**
- **Complete Projects to Earn Dollars**

# **Prime Directives of the Program**

**Students who do not fulfill these three requirements will immediately be dropped from the program:**

- Pass All Quizzes**
- Complete and Submit All Projects  
(No copy-paste allowed)**
- Earn Dollars in the International market, as per faculty direction**

# Developer Skill Set: Web2



## TypeScript

Frontend & Backend  
Development



## VS Code

Integrated Development  
Environment



## Next.js

Front End Development  
Framework



## AWS CDK

Infrastructure as Code



## Serverless

AWS Lambda, API Gateway,  
AppSync, and Aurora for API  
Development



## CLI

Panacloud CLI for API  
Development

# Developer Skill Set: Web3



Ethereum



Solidity



OpenZeppelin



Hardhat



Ethers.js



Metamask



Alchemy



The Graph



Chainlink

# Developer Skill Set: 3D



## WebGPU

Three.js - JavaScript 3D  
Library



## WebXR

Three.js - JavaScript 3D  
Library



## DAPP

Designing Metaverse DAPP  
Experiences



## C#

Unity XR Programming



## Unity 3D

3D Development Platform



## Blender

3D Modeling

# 1 Year Certification Program

- Onsite, Online, and Pre-recorded classes
- Partnerships with Universities and NGOs to utilize excess capacity on weekends and evenings.
- Onsite classes in auditoriums.
- Four hours of onsite classes per week, the rest in online classes and recorded videos.
- Two hours of online classes per week.
- Students selected based on entrance exams at a mass level.
- Program cost less than \$20 per month.





# 1 Year Post Graduate Diploma



PGD in Web 3 and Metaverse				
ID	Quarter	C-Code	Course Title	Cr-H
1	1		Intro to Computer Science	3
2	1		Introduction to Programming	3
3	1		Object Oriented Programming	3
4	2		Advanced Web 2.0 Development	3
5	2		Metaverse Development	3
6	2		Smart Contract Development	3
7	3		Decentralized App Development	3
8	3		Cross Platform Metaverse Development	3
9	3		Serverless API Development	3
10	4		Advanced Web 3.0 Development	3
11	4		Computer Graphics Programming	3
12	4		Designing & Developing Metaverse DApp Experiences	3
Total				36



# 2 Year Associate's Degree



Associate's Degree in Computer Science (Web 3 and Metaverse)

ID	Semester	C-Code	Course Title	Description	Cr-H
1	1		Intro to Computer Science	Web 3 & the Metaverse	3
2	1		Introduction to Programming	C# for Metaverse	3
3	1		Object Oriented Programming	TypeScript	3
4	1		English-I	Elective - Expository Writing	3
5	1		UI/UX Design	Elective - Arts & Humanities	3
6	1		Linear Algebra	Elective - Quantitative Reasoning	3
7	2		Advanced Web 2.0 Development	NextJS	3
8	2		Metaverse Development	Unity & C#	3
9	2		Smart Contract Development	Solidity & Hardhat	3
10	2		English-II	Elective - Expository Writing	3
11	2		Pakistan Studies	Elective - Civilization Courses	3
12	2		Applied Physics	Elective - Natural Sciences	3

# 2 Year Associate's Degree

Associate's Degree in Computer Science (Web 3 and Metaverse)					
ID	Semester	C-Code	Course Title	Description	Cr-H
13	3		Decentralized App Development	EthersJS, NextJS, & Solidity	3
14	3		Cross Platform Metaverse Development	Unity & C#	3
15	3		Serverless API Development	Amazon Web Services	3
16	3		English-III	Elective - Expository Writing	3
17	3		Tokenomics	Elective - Social Sciences	3
18	3		Physics for Game Developers	Elective - Natural Sciences	3
19	4		Advanced Web 3.0 Development	DAO, Oracles, Graphs, DeFi, & Tokenomics	3
20	4		Computer Graphics Programming	Elective - Quantitative Reasoning	3
21	4		Designing & Developing Metaverse DApp Experiences	Elective - Arts & Humanities	3
22	4		Political Science & Government	Elective - Social Sciences	3
23	4		Comparative Religion	Elective - Civilization Courses	3
Total					69

# Why Us?

We have Extensive Experience of Conducting Mass Training Programs. Currently, we are running the President of Pakistan's Initiative for AI & Computing (PIAIC).



[www.piaic.org](http://www.piaic.org)

# Panaverse DAO

A decentralized autonomous organization (DAO) is an emerging form of legal structure that has no central governing body and whose members share a common goal to act in the best interest of the entity.

Panaverse DAO will be a hybrid of a business entity and an educational institution.



[www.panaverse.dao](http://www.panaverse.dao)



# What is a DAO?

- A decentralized autonomous organization is an entity structure in which token holders participate in the management and decision-making of an entity.
- There is no central authority of a DAO; instead, power is distributed across **token holders** who collectively cast votes.
- All votes and activity through the DAO are posted on a blockchain, making all actions of users publicly viewable.
- The concept of a DAO is to promote oversight and management of an entity similar to a corporation. However, the key to a DAO is the lack of central authority; the collective group of leaders and participants act as the governing body.



# How DOW Works?

- The voting process for DAOs is posted on a blockchain. Users must often select between mutually-exclusive options.
- Voting power is often distributed across users based on the number of tokens they hold.
- For example, one user that owns 100 tokens of the DAO will have twice the weight of voting power over a user that owns 50 tokens.
- The theory behind this practice is users who are more monetarily invested in the DAO are incentivized to act in good faith.
- DAOs often have treasuries that house tokens that can be issued in exchange for fiat.



## Benefits of Panaverse DAO

- Decentralization
- Participation
- Publicity
- Community

# Panaverse Community

The concept of a Panaverse DAO will encourage people from all over the world to seamlessly come together to build a single Web 3 and Metaverse vision. With just an internet connection, token holders can interact with other owners wherever they may live.



[www.panaverse.dao](http://www.panaverse.dao)



# Panaverse Tokens?

- A Panaverse DAO initially raises capital by trading fiat for its native Panaverse token. This native token represents voting power and ownership proportion across members. If Panaverse DAO is successful, the value of the Panaverse native token will increase.
- The Panaverse DAO can then issue future tokens at a greater value to raise more capital.
- Panaverse Tokens will also be issued to Developers for work performed and performant students as reward.
- A Panaverse DAO can also invest in assets if the members decide to approve such measures.
- The DAO will train developers and receive a cut of 30% from the sale of products. These funds will be used to train more developers and provide return to the investors.



# The Panaverse Plan

- The mission statement of the Panaverse DAO is to become the largest Jamstack, Web 2.0, Web 3.0, and Metaverse entity in the world and change lives of millions around the world.
- Web 2.0, Web 3.0, and Metaverse Mass Training DAO.
- Template Development: Web 2.0, Web 3.0, and Metaverse Templates
- Dapp Development: Panacloud Web 3.0 API Marketplace, etc.
- Panaverse will offer in Crowd Sale 1 Billion ERC 20 Tokens in 2023.

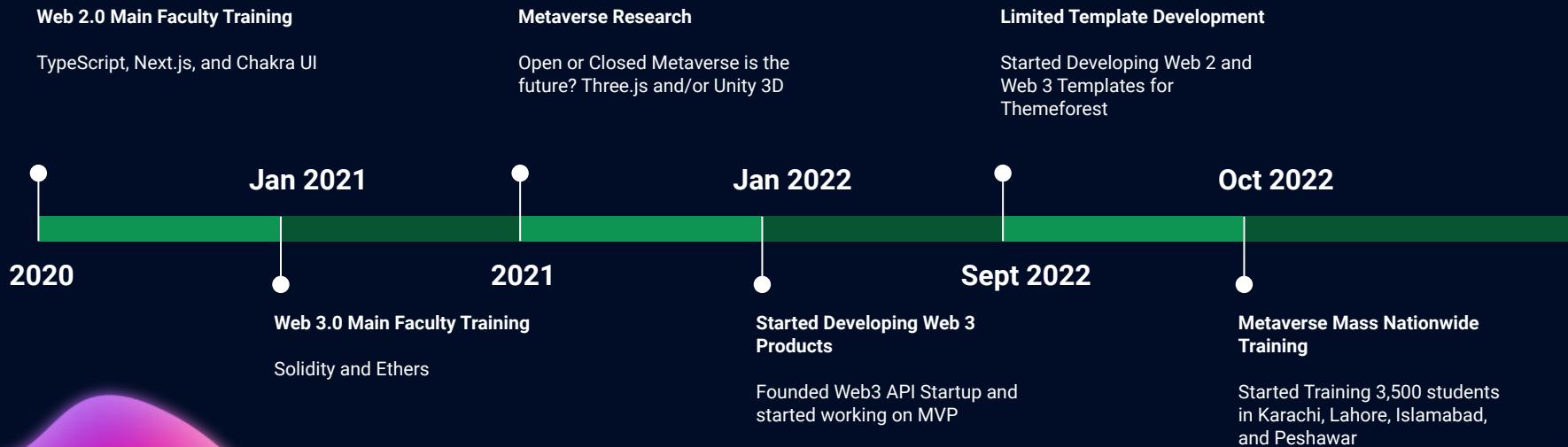
# Developing Templates

We will be developing Jamstack, Web 3.0, and Metaverse templates for the following Marketplaces:

<https://themeforest.net/>

<https://sketchfab.com/>

# The Pakistan Panaverse Timeline



# The Global Panaverse Timeline





# Panaverse: Certified Web 3.0 & Metaverse Developer

[www.panaverse.co](http://www.panaverse.co)

<https://discord.gg/GggDkBwJDr>

[https://twitter.com/Panaverse\\_edu](https://twitter.com/Panaverse_edu)

<https://www.facebook.com/groups/panaverse>

The image shows a computer monitor displaying a webpage for a "Certified Web 3.0 and Metaverse Developer" program. The page has a green header with white text: "Certified Web 3.0 and Metaverse Developer: A Nationwide Program in Karachi, Lahore, Islamabad, Peshawar, and Faisalabad". Below the header, there is a section with smaller text: "Getting Ready for the Next Generation and Future of the Internet - join a 13 Trillion Dollar Industry with 5 Billion Users". The main content area contains the same program details again. At the bottom, there are buttons for "APPLY FOR ADMISSION NOW" and "Watch the Insane Future of Web 3.0 and Metaverse Video in Urdu". The monitor sits on a black stand against a dark background.