

TEZOS SOUTHEAST ASIA



INAUGURAL

TEZOS MASTERCLASS

19 - 28 October 2018 | Nanyang Technological University | Singapore

TEZOS MASTERCLASS

BLOCKCHAIN, FINTECH AND FORMAL VERIFICATION TECHNIQUES ARE FAST BECOMING INDISPENSABLE COMPONENTS THAT MAKE UP THE FUTURE OF ENGINEERING

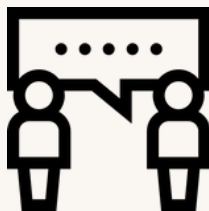
BE A PART OF HISTORY AND CHALLENGE YOURSELF THROUGH THIS INAUGURAL INTENSIVE WEEKEND MASTERCLASS TO BE EQUIPPED WITH THESE TECHNOLOGIES

Program Highlights



- Weekend Intensives (Friday to Sunday)
- Weekday Trainer Consultation
- Real-time Hackathon & Prizes
- Certificate of Achievement (Participation & Excellence)

World-Class technologies & trainers



- Creator of OCaml from INRIA
- Founder & CTO of Tezos Platform (largest ICO of its time in 2017)
- Critical technology from France which is used in everyday industrial applications

WWW.TEZOS.ORG.SG/MASTERCLASS

COMMENCES FRIDAY OCTOBER 19, 2018 | 5:30 PM

TRAINING TOPICS



FORMAL METHODS IN SOFTWARE ENGINEERING

- Failures of critical embedded systems
- Success stories
- A shift in education
- The mathematics of formal methods
- The limits



THEORY OF PROGRAMMING

- Rewrite systems
- Functional languages
- Stacks in a functional setting
- Data sharing
- The call stack and the heap
- Tail call optimisation



OCAML: A PROGRAMMING LANGUAGE FOR FORMAL METHODS

- Mini-ML as a subset of OCaml
- Sentences and expressions of Mini-ML
- Evaluation of Mini-ML and formal semantics
- Recursive definitions
- Variant types and pattern matching
- Extending Mini-ML with side-effects (optional)
- Data structures in OCaml (search trees)



BLOCKCHAIN NETWORKS AND SMART CONTRACTS

- The Tezos protocols
- The design of Liquidity and Michelson: two
- Domain-Specific Languages for smart contracts
- A small example in Michelson
- Demo: Running the contract on the Tezos blockchain

TEZOS BLOCKCHAIN (CLIENT SIDE)

- Design and innovation in application dev cycle
- The mobile wallet Cortez
- The block explorer TezScan
- The middleware Mezos

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Spaces are limited - Sign Up Now

PROGRAM OVERVIEW

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FRIDAY 19TH
OCTOBER
17:30 – 22:30

REGISTRATION AND DINNER

Welcoming all students, trainers and esteemed guests for dinner followed by Masterclass commencement

SATURDAY 20TH
OCTOBER
10:30 – 18:00

MASTERCLASS INTENSIVE DAY

Team allocations, hackathon briefing, remote training, mobile/web development topics.

Lunch and tea break will be catered for all participants

SUNDAY 21ST
OCTOBER
09:30 – 18:00

MASTERCLASS INTENSIVE DAY

Team allocations, hackathon briefing, remote training, mobile/web development topics.

Lunch and tea break will be catered for all participants

MONDAY & TUESDAY
22ND TO 23RD
OCTOBER
09:00 – 18:00

TIME TO PONDER

Free time to practice what was taught, consult with trainers (self-arranged) and prepare for Hackathon

WEDNESDAY TO FRIDAY
24TH TO 26TH OCTOBER
15:00 – 23:00

HACKATHON

Teams meet up and Hackathon commences. Dinner will be provided for all participants.

SATURDAY
27TH OCTOBER
08:00 – 19:00

MASTERCLASS INTENSIVE DAY

Masterclass training topics, Innovation & design thinking principles, potential remote training sessions. Lunch will be provided.

SUNDAY
28TH OCTOBER
10:00 – 18:00

DINNER & EVENING PROGRAM

Final training session, Team Presentations, Hackathon Prize Presentations, awarding Certificate of Attendance & Certificate of Excellence

Lunch and refreshments will be provided