

# ETHICAL HACKING



6 Months Program

1 Month Planning  
2 Months Learning  
3 Months Internship

**AVODHA**  
— POLYTECHNIC, NIT, VADODRA —

## What is Flood-Boxing?

Despite being well known globally for its innovative and cutting-edge technology, IBM is also the leader in the security industry.

IBM's Flood-Boxing is a state-of-the-art security solution that is designed to protect your organization's data.

## Tutor Profile

Dr. Sridharan is a full-time professor and teaches a third course, and Dr. Sridharan is a full-time professor and teaches a third course. He is also a member of the IBM Security Research Center, and an advisor to the IBM Security Research Center. He is also a member of the IBM Security Research Center, and an advisor to the IBM Security Research Center. He is also a member of the IBM Security Research Center, and an advisor to the IBM Security Research Center.



Dr. Sridharan





## Other topics

### RECOMMENDED READING

- [Introduction to Python](#)
- [Python for Data Science](#)

### RECOMMENDED WATCH

- [Learning Python for Data Science](#)
- [Python for Data Science](#)

### LINKS

- [Python for Data Science](#)

### RECOMMENDED TOOLS

- [Python for Data Science](#)



- [Python for Data Science](#)

### RECOMMENDED

- [Python for Data Science](#)

- BAP Fullstack Types
- BAP Desktop Client
- BAP Mobile App
- BAP Web
- BAP Backend UI/UX
- BAP Backend API
- BAP Frontend
- BAP Database



- BAP
- Web portal
- Backend API

#### SECURITY ASPECTS

- Authentication & Authorization
- Role-based access control (RBAC)
- Data encryption & secure storage
- Regular security audits & updates

### AVODHA

#### • SCOPE

#### • IT Infrastructure

- IT Services & Support
- Hardware & Software
- Network & Security
- Server & Cloud & Data
- Data Analytics & Business Intelligence
- Customer Experience

#### • IT & HR

- IT & HR Strategy
- HR & IT Management



- Digital Marketing
- HR & IT Strategy & Support
- Business Consulting
- HR & IT Management
- HR & IT
- HR & IT Management & Support

## 3.4.1.1.1.1

- Struktur dan Disiplin
- Kerjasama
- Mengetahui peran masing-masing
- Disiplin waktu dan kerja
- Mampu berkolaborasi
- Komunikasi yang efektif
- Tanggung jawab
- Berinovasi



- Kemampuan berkolaborasi
- Tanggung jawab
- Kemampuan berinovasi
- Berkomunikasi
- Berinovasi
- Mampu berkolaborasi

## RESEARCH AREAS

- 1. New forms of engineering
- 2. Integration of tools Engineering
- 3. Human based tools Engineering
- 4. Computer based tools Engineering
- 5. The city
- 6. Mobile applications Engineering
- 7. The digital divide



## RESEARCH APPLICATIONS

- 1. Manufacturing and the factory
- 2. Big energy systems
- 3. Space exploration
- 4. Environmental protection
- 5. Environmental health
- 6. Food safety



- Finding all domains
- Identifying subdomains
- Enumerating Subdomains of target

**OWASP**

- All subdomains of MIT Top 10
- Website
- Manual HTTP requests
- Identifying subdomains



- 1) Automated Discovery
- 2) Website Enumeration
- 3) Directory Enumeration
- 4) Email Enumeration
- 5) Content Discovery
- 6) Subdomain Enumeration Frameworks
- 7) Services Enumeration
- 8) DNS Enumeration Techniques
- 9) DNS Enumeration Tools
- 10) DNS Enumeration (2014)
- 11) DNS Enumeration (2015)

- Identity Management
- Single Sign-On
- Cross-Site Scripting
- SQL Injection
- Cross-Site Request Forgery
- Using components left behind by web browser
- XSS (Cross Site Scripting) with JavaScript
- XSS (Cross Site Scripting)



- Virus Identification
- Domain Registration (DMZ)
- Web Hosting
- DNS
- Layer 2 and 3 Switches (VLAN)
- Firewall
- Proxy Server
- Load Balancing
- SSL (Secure Sockets Layer) Certificate

## AVOCHA (AVOIDANCE OF CHAIN OF CUSTODY)

- Accredited
- Approved by NIST
- Lab Computer
- Full documentation
- Full evidence
- ISO
- Software ISO
- ISO 17025
- Full evidence
- Software / Full evidence



- Direct Evidence
- Copy
- Full
- Full evidence
- Full
- Full
- Software evidence
- Software / Full evidence
- Software / Full evidence (Full E)
- Software / Full evidence (Full E)

- Search tool
- WP
- Blue team Cyber
- Active Directory
- Network Diagram
- Network Configuration
- Documentation
- Red team Cyber
- with 14 week time
- Plus Content



#### • 4 weeks of training & assessment

- Certification
- Outcoding Security Software
- Penetration Testing
- Hands-on - 3-6 months
- Certified
- **certification**
- provided to a company
- Client's organization
- High level of skills
- Security & Networking
- Penetration Testing
- Network of 100

- Demographics Expansion
- Entrepreneur
- Funding
- Growth Financing
- IPO
- Operations
- R&D
- Management Practices
- Exit Strategy

### VIETNAM:

- Market history
- Selling & quality



- Looking outside of your

### VIETNAM MARKET:

- Introduction of Market (Pre 2000)
- Market entry
- Selling & quality
- Market history
- Selling & quality

### CONCEPTS TO REMEMBER

- Computer-based training
- E-learning
- E-learning applications
- E-learning applications
- E-learning applications

### QUESTIONS

- Identify the components of e-learning



### QUESTIONS

- Identify the components of e-learning

### SWITCH ANALYSIS

- Processing flow
- add'l input
- add'l code/condition

### Control Analysis

- system state/decision point
- system output/decision
- direction
- control flow of code
- system state/decision point
- output/condition



## City Center



Bank of America Tower



Flatiron Building



Empire State Building



Grand Central Terminal



One World Trade Center



United Nations Secretariat Building



Citicorp Center



111 West 57th Street



200 West Street



TRUST



CLUBS



TRUST



TRUST

**A Product of American Indian Parents**

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

**Board of Directors**

Dr. Jay L. Smith, President  
 Richard J. Smith

**Trustees & Executive**

John J. Smith, Jr., CEO  
 Dr. Richard J. Smith, President  
 Richard J. Smith, Treasurer

**Executive Committee**

Richard J. Smith, CEO  
 Richard J. Smith, President  
 Richard J. Smith, Treasurer  
 Richard J. Smith, Secretary

**Trustee Representative**

Richard J. Smith, President  
 Richard J. Smith, Treasurer  
 Richard J. Smith, Secretary

**Executive Board of Directors**

Dr. Jay L. Smith, President  
 Richard J. Smith, Treasurer  
 Richard J. Smith, Secretary

**Executive Board of Directors**

Richard J. Smith, CEO  
 Richard J. Smith, President  
 Richard J. Smith, Treasurer

**Executive Board of Directors**

Richard J. Smith, CEO  
 Richard J. Smith, President  
 Richard J. Smith, Treasurer

**Executive Board of Directors**

Richard J. Smith, CEO  
 Richard J. Smith, President  
 Richard J. Smith, Treasurer

**Executive Board of Directors**

Richard J. Smith, CEO  
 Richard J. Smith, President  
 Richard J. Smith, Treasurer

**Executive Board of Directors**

Richard J. Smith, CEO  
 Richard J. Smith, President  
 Richard J. Smith, Treasurer

**Executive Board of Directors**

Richard J. Smith, CEO  
 Richard J. Smith, President  
 Richard J. Smith, Treasurer

**Executive Board of Directors**

Richard J. Smith, CEO  
 Richard J. Smith, President  
 Richard J. Smith, Treasurer