

## **Victor Eric Pattiradjawane, S.Kom., M.Sc.**

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*Google Scholar:* <https://scholar.google.co.id/citations?hl=en&user=GVhkUU4AAAAJ>

### **Research Interests**

Software Security, Cybersecurity, Secure Web Applications, Runtime Behavior Analysis, Computer Networks, Software Engineering

### **Education**

#### **Master of Science (M.Sc.) in Informatics and Computer Engineering**

Tomsk State University of Control Systems and Radioelectronics, Russia (2019 – 2021)

- Thesis: *Software Development Effort Estimation based on Use Case Points and Fuzzy Logic*
- Supervisor: Prof. Igor Georgevich Borovskoy

#### **Bachelor of Science (S.Kom.) in Informatics and Computer Engineering**

Universitas 17 Agustus 1945, Surabaya, Indonesia (2000 – 2005)

### **Academic and Research Experience**

#### **Lecturer – Department of Computer Science**

Universitas Pattimura, Ambon, Indonesia (2023 – Present):

- Teaching courses in Computer Network, Web Technologies and Cybersecurity Fundamentals.
- Supervising student projects in web development and information systems
- Actively developing research direction toward software security and secure web applications

### **Selected Technical Work Relevant to Software Security**

- Development of web-based systems using PHP and MySQL with attention to input handling and server-side processing
- Implementation and management of Linux-based servers and web servers (e.g., Nginx) in application deployment
- Experience in configuring and managing network infrastructure (LAN/WAN) and system administration
- Practical exposure to application deployment environments where system configuration and execution context affect software behavior

## Professional Experience

Administrative Officer – Universitas Pattimura (2010 – 2023)

- Managed administrative and information systems supporting academic operations

Engineer on Site – PT. Telekomunikasi Indonesia (2007 – 2010)

- Deployment and maintenance of network infrastructure
- Involved in network installation and configuration across multiple regions

## Projects

- Development of research and community service submission system (PHP, MySQL) – Universitas Pattimura (2024)
- Administrative system for Faculty of Engineering & HRD Systems (PHP, MySQL)
- Network design and deployment (LAN/WLAN) across academic and institutional environments, also including banking and airport systems.

Additional projects and source code are available at: <https://github.com/victoreric>

## Publications and Presentations

- Pattiradjawane, V. E. (2024). *Estimation of Software Development Effort with Use Case Points and Fuzzy Logic*. Scientific Conference, Ambon, Indonesia.
- Pattiradjawane, V.E. *et al.* (2024). Machine Learning-Based Detection of Web Defacement Attacks on Critical Web Infrastructure. National Journal (SINTA-indexed), Indonesia.
- Pattiradjawane, V.E. *et al.* (2023). Anomaly Detection for Web Application Attacks Using Supervised Learning Models. Conference Proceedings, Indonesia
- Pattiradjawane, V. E. (2021). *Comparison of Fuzzy Inference Systems*. International Scientific Conference, Tomsk-Rusia
- Pattiradjawane, V. E. (2020). *Online Learning System for Russian Language*. Russian Scientific Conference
- Pattiradjawane, V. E. (2020). *HR Information System at Pattimura University*. Conference on Fundamental Sciences, Tomsk-Rusia

## Technical Skills

- Programming: PHP, Python, JavaScript, SQL
- Web Development: HTML, CSS, backend systems
- Systems: Linux server administration, web server configuration (e.g., Nginx)
- Networking: LAN/WAN design, MikroTik, Cisco (CCNA-level)
- Tools: Git, GitHub

## Certifications and Training

- Microsoft Certified Educator (2021)
- Cloud Computing – Alibaba Cloud (2021)
- MikroTik Certified (MTCNA, MTCRE)
- Cisco CCNA Training

## **Awards**

- LPDP PhD Scholarship Awardee (Indonesia Ministry of Finance) – Ongoing
- Russian Government Scholarship for Master's Degree (2018–2021)

## **Languages**

- Indonesian: Native
- English: Professional working proficiency
- Russian: Professional working proficiency

## **Research Direction (PhD Focus)**

My current research focus is on software security, particularly securing web applications through runtime inspection and isolation mechanisms. I am interested in understanding how vulnerabilities emerge from the interaction between software behavior and execution environments, especially in server-side systems.