



Sothyro Meas

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WORK EXPERIENCE

🏢 *Canada Bank — Phnom Penh, Cambodia*

Application Security Analyst (Pentest)

[4 Jun 2024 – Current]

- Perform penetration testing on web and mobile applications & APIs (**Kali Linux tools, Burp Suite, Frida**).
- Conduct vulnerability assessments & policy compliance scans (**Tenable Nessus**)
- Perform static and dynamic source code reviews (**SonarQube, JADX**)
- Lead phishing simulations to raise employee cybersecurity awareness (**Gophish**).

🏢 *Ministry of Education, Youth and Sport — Phnom Penh, Cambodia*

Freelance Software Developer

[Oct 2023 – Jun 2024]

- **Akhara** – Khmer E-book, Audiobook, and Pronunciation Assessment Mobile App for Cambodian Students
 - Implemented a pronunciation assessment feature using a **Hugging Face pre-trained** model.
 - Developed frontend (**React Native** and **Tailwind**) and backend (**Flask, Python**, and **Appwrite**).
 - Deployed to the Play Store and App Store under the name **Akhara**, reaching **over 5,000 downloads**.
- **Plagiarism Detection Tool** – Web Application for Detecting Plagiarized Khmer Content
 - Built frontend (**React** and **Tailwind**) and backend (**Python, Flask**, and **Redis**).
 - Integrated **Google Cloud Vision** for Khmer PDF text extraction and **Elasticsearch** for similarity search.
 - Applied **NLP and information extraction techniques**, including Scikit-learn library (e.g TF-IDF) and BERT.
 - Website: plagiarism-checker.duraseksa.gov.kh (requires login credentials; demonstration via the: [Link](#))

🏢 *Kakvei — Phnom Penh, Cambodia*

Technical Project Lead

[Sep 2022 – Jan 2024]

- Received **\$23,000** in funding to develop a web application and Chrome extension for Khmer writers by providing Khmer transliteration features, addressing challenges in the current Khmer typing system.
- Crawled Khmer text from public web sources and applied data cleaning, normalization, and data mapping.
- Website: <https://kakvei.tech/en/about-us/>, *Reference for funding listed in the Honors and Awards section.

UNDERGRADUATE RESEARCH EXPERIENCE

[21 Aug 2023 – 26 Apr 2024]

Plagiarism Detection in OCR-Extracted Khmer Text: Method Comparison and Web Application Implementation

- Project funded by the Secretary of State of the Ministry of Education, Youth and Sport in Cambodia
- Extracted text from Khmer PDFs using Google Cloud Vision OCR, followed by data cleaning and normalization.
- Evaluated different methods (TF-IDF, BERT, and Elasticsearch) and identified the most efficient approach for large-scale Khmer text comparison. Utilized data visualization tools such as Pandas, Scikit-learn, and numpy.
- Full thesis report: [Link](#)

LANGUAGE SKILLS

Mother tongue(s): Khmer

Other language(s): English (IELTS 7.0)

EDUCATION AND TRAINING

Bachelor of Science in Information and Communications Technology

American University of Phnom Penh [11 Jan 2021 – 16 Sep 2024]

Address: Phnom Penh, Cambodia, | **Final grade:** 3.78 / 4.00 Honors: Magna Cum Laude | **Thesis:** Plagiarism Detection in OCR-Extracted Khmer Text: Method Comparison and Web Application Implementation

Elective Courses: *ICT 321 Cybersecurity, ICT 405 Ethical Hacking, ICT 406 Advanced Ethical Hacking, ITM 360 Machine Learning, ITM 390 Artificial Intelligence, ITM 370 Data Analytics, ITM 380 Cloud Computing*

TECHNICAL ACTIVITIES

[Mar 2023 – Jul 2023]

Technical Team Lead, Google Digital Literacy Funding Project

- Awarded **\$3,000** in funding from **Google.org** to lead a cybersecurity campaign in Cambodia, named **Puthi**.
- Reached thousands of Cambodian youth through university campaigns promoting safe digital practices.
- Developed a user registration webpage, and delivered cybercrime awareness content in Khmer language.
- Campaign social media: [Link](#), Website: <https://puthi.info/english>

[Mar 2022 – Sep 2022]

Cambodian Team Mentor, World Robotic Olympiad 2022

- Mentored the Cambodian team for the World Robot Olympiad 2022 final round in Dortmund, Germany.
- Built a remote-controlled boat to collect trash from rivers, tackling environmental challenges.
- Worked with Raspberry Pi, IoT components, and OpenCV.
- Reference: [Link](#)

HONOURS AND AWARDS

[2023] Innovative Project Award – Kakvei

23,000\$ Total Funding and Awards: Developed a digital writing tool that converts Khmer Romanized text to Khmer script, enhancing digital typing efficiency for Khmer writers. Received multiple awards for the project's innovation and impact:

- **Smart Start Young Innovator Winner from Axiata** (Nov 2022) – 1st place winner with a 10,000\$ award [Link](#)
- **National Incubation Center of Cambodia** (Oct 2023) – for project development with a 10,000\$ funding [Link](#)
- **Business Model Competition 2023** (Dec 2023) – for innovative project proposal with a 3,000\$ award [Link](#)

[Aug 2023] Huawei

Moonshot Award for Best Entrepreneur Project in Asia Pacific: Received the Moonshot award from American investor Jim Rogers and Huawei for the best tech business proposal development, competing among 16 countries in the Asia-Pacific region. [Link](#)