Bodin **Chinthanet**

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Work Experience

Specially Appointed Assistant Professor
Oct. 2021 - Present

Software Engineering Laboratory, Nara Institute of Science and Technology
Nara, Japan

- Conduct joint research initiatives on issues relating to software quality and security vulnerabilities with international research institutions.
- Initiate and manage data science research projects for undergraduate students during their internship program.
- Manage and maintain the availability of computing resources and data storages in the laboratory (Linux-based servers).
- Analyze a source code generation tool's performance and look for improvement opportunities.
- Serve on a program committee of premier software engineering conferences (ASE, MSR, ESEC/FSE).
- Serve as a reviewer for Q1 journals including ACM Transactions on Software Engineering and Methodology (TOSEM) and Journal of Systems and Software (JSS).

Security Research Intern
Jun. 2019 - Sep. 2019

SAP Labs France, SAP SE
Mougins, France

- Designed and implemented the prototype extension of the open-source code analysis tool called *Eclipse Steady* to identify whether vulnerable functions of third-party libraries exist in the JavaScript application.
- Conducted a study with SAP's internal JavaScript applications to evaluate the performance of the prototype which later published as a research paper at the International Conference on Automated Software Engineering (ASE 2020).

Application Engineer Intern
Aug. 2017 - Oct. 2017

Rakuten Group, Inc.
Osaka, Japan

- Designed and implemented a natural language processing tool to group similar items from Rakuten Ichiba's ranking results based on the item description written in Japanese.

Skills

Programming	Python, Java, JavaScript, C++, Bash
Libraries/Frameworks	Numpy, Scipy, Scikit-learn, Pandas, spaCy, MeCab, Docker, CouchDB, MongoDB, MySQL, Esprima, ANTLR, Flask
Tools	Vim, Git, IntelliJ, Jupyter Notebook
Languages	English (TOEIC-IP 935), Japanese (JLPT N3), Thai (Native)

Selected Publications

Lags in the Release, Adoption, and Propagation of npm Vulnerability Fixes

Empirical Software Engineering (EMSE), 2021

- Investigated a million of npm package dependency network to characterize the lags of vulnerability fix release, adoption, and propagation.
- Journal first presentation at International Conference on Software Engineering (ICSE 2022).
- Received SIGSE's excellent research award in IPSJ/SIGSE Software Engineering Symposium (SES 2021).
- Proposed suggestions to developers and research towards faster vulnerability fix migration.

Towards smoother library migrations: A look at vulnerable dependency migrations at function level for NPM JavaScript packages

International Conference on Software Maintenance and Evolution (ICSME), 2018 (Worked as a co-author)

- Identified whether or not vulnerable functions are called in outdated npm packages.
- Revealed that most of the npm packages that depend on vulnerable libraries do not call vulnerable functions.

Education

Nara Institute of Science and Technology
Nara, Japan

D.Eng. and M.Eng. (Division of Information Science)
Oct. 2016 - Sep. 2021

- Received 5-year Japanese Government Scholarship (MEXT).
- Student volunteer at the Asia-Pacific Software Engineering Conference (APSEC 2018).
- Reviewer and subreviewer at premier software engineering conferences (MSR data showcase, ESEC/FSE artifacts).
- Received 500k JPY for creative and international competitiveness project (CICP 2016).

Kasetsart University
Bangkok, Thailand

B.Eng. (Department of Computer Engineering)
May. 2012 - May. 2016

- Second class honors degree (cumulative GPA:3.27/4.00).
- Built a tool to detect emerging event from twitter data stream using graph clustering technique and published the result at the International Conference on Network, Communication and Computing (ICNCC2016).