

# JAINTA PAUL

<https://pauljainta.github.io/jp/>

Salt Lake City, USA

[jaintapaul1998@gmail.com](mailto:jaintapaul1998@gmail.com) (primary) ♦ [u1471999@utah.edu](mailto:u1471999@utah.edu) (academic)

## EDUCATION

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### Ph.D. Student

Kahlert School of Computing, University of Utah  
*Security, Safety, and Privacy of Cyber Physical Systems*

January 2024 - Present

### Bachelor of Science

Computer Science and Engineering  
Bangladesh University of Engineering and Technology (BUET)

February 2017 - May 2022

### Higher Secondary Certificate(Science Track)

Notre Dame College

August 2014 - June 2016

## RESEARCH AND PUBLICATIONS

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- [CCS-RICSS'24] [Towards Cross-Physical-Domain Threat Inference for Industrial Control System Defense Adaptation](#)  
*Jainta Paul, Lawrence Ponce, Mu Zhang, and Luis Garcia*  
In The 2nd International Workshop on Re-design Industrial Control Systems with Security (RICSS), co-located with The 31st ACM Conference on Computer and Communications Security (CCS), Salt Lake City, Utah, October 2024.

## PROFESSIONAL EXPERIENCE

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Software Engineer, [OpenRefactory, Inc.](#)

June 2022 - November 2023

### Contribution:

- Test Drive - OpenRefactory:  
Role : Technical Leader
  - Website: <https://testdrive.openrefactory.com/>
  - Description: Developed a platform allowing users to initiate static code analysis trials for open-source projects. Users log in with GitHub, select projects, and choose Python, Java, or Go for analysis.
- Open Source Python and Java Projects Bug Analysis and Reporting:  
Role : Full Stack Developer and Security Engineer
  - Website: <https://pypi.openrefactory.com/>
  - Description: The project involved finding security vulnerabilities and compliance bugs in open-source Python and Java projects through static source code analysis and automatically reporting them to the maintainer.
- Intelligent Code Repair(iCR):
  - Contributed to the Java core static bug detection engine. Worked with some static analysis techniques such as Call Graph Creation, Points to Analysis, Static Taint Analysis.

## NOTABLE PROJECTS

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Rider - A traffic Solution (Android Studio, Firebase)

[GitHub](#)

- Implemented some basic features of a ride sharing app.

Flickr (JavaFX, PostgreSQL, Pgadmin)

[GitHub](#)

- Implemented some basic features of flickr website.

Automated Car Parking Controller (Atmega 32, Lcd module, PIR sensors, Servo Motors)

[Youtube](#)

- Implemented automated car parking lot.
- Visualized number of cars using LCD module.
- Materialised controller entrance and exit with servo motor and PIR sensors.

Compiler for C (Yacc, Lex, C, C++, Shell)

[GitHub](#)

- Implemented symbol table.
- Implemented lexer and parser.
- Implemented intermediate code generator.

## EXTRA-CURRICULAR ACTIVITIES

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- Capture the Flag(ctf) participation by iTrust SUTD (2024)
- Member of Organizing Committee, BUET CSE FEST 2018.
- Former Organizing Secretary of TABS (a students' organization of BUET).

## REFERENCES

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Dr. Luis Garcia

Assitant Professor, KSOC, University of Utah

Email: lgarcia@cs.utah.edu

Dr. ABM Alim Al Islam

Professor, CSE, BUET

Email: alim\_razi@cse.buet.ac.bd

Dr. Munawar Hafiz

Founder and CEO, OpenRefactory, Inc.

Email: munawar@openrefactory.com