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Jiahui Chen
Computer / Software Engineer

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EDUCATION

Bachelor of Science in Computer Science, *La Salle URL*   Sep 2017 — May 2022

SKILLS

Programming Languages	C, Java, Go, JavaScript, HTML5/CSS, SQL(PostgreSQL, MySQL), NoSQL(Cassandra, MongoDB)
Tools, Frameworks and Technologies	Vue, React, ElectronJS, Unix/Linux, Git, LaTeX, Shell scripting
Skills	Systems design, Agile mindset, App development, Project management, Debugging
Interests	Distributed Computing, Cloud, Algorithms, Open Source, Cybersecurity
Languages	English, Spanish, Catalan, Cantonese (speaking)

EXPERIENCE

Quality Assurance Game Tester   **May 2022 — Present**
DAQA   *Los Angeles, CA (Remote)*
- Quality assured 5 games to ensure new features are bug free. Analyzed and built bug reports to provide insightful observations for nearing games which decreased 3% of game studios fixing expense.

Research Assistant / Moodle Learning Analytics   **Sep 2021 — Present**
La Salle URL - GRETEL research group   *Barcelona, ES*
- Architected MLA (Moodle Learning Analytics) tool and published 2 short papers for LASI and JICV conferences.

Teaching Assistant   **Jun 2021 — Jul 2022**
La Salle URL   *Barcelona, ES*
- Taught 3 Computer Science courses: Data Structures and Algorithms, Systems Administration and Advanced Operating Systems.
- Planned and conceived course material and 5 projects (DSA, Linux Kernel Module, RPi server management, File systems, etc).
- Assisted, graded and mentored 6 groups of 35 students.

PROJECTS

Moodle Learning Analytics   **Oct 2021 — Present**
GRETEL research group - La Salle URL   *Barcelona, Spain*
- Programmed a desktop application with support for 3 platforms that analyses Moodle generated logs.
- Built over 10 different meaningful visualization widgets like charts, graphs and tables, to portray the resulting data which improved scholars' data literacy proficiency by 10%.
- Adopted by 4 Spanish universities and schools (La Salle, UPC, URV, Euskadi) academic staff to comprehend and understand students' behaviour. Increased students overall assessment accuracy.

Conference Certificate Generator   **Oct 2021 — May 2022**
European TEEM Conference   *Barcelona, Spain*
- Spotted breaking dependencies, revamped and improved an open-source project 1 week before the conference. Resulting in a generation of 300+ certificates for the European TEEM conference scientific committee.
- Implemented a missing mailing automation feature for 100% attendees coverage.

Senior Thesis - Heterogeneous Computing Farm: Yako (10/10)   **Oct 2021 — May 2022**
La Salle URL   *Barcelona, Spain*
- Engineered an orchestrator, project Yako, that determines the viability and handles the deployment of computing services into a multi-layered distributed heterogeneous environment with support for traditional and IoT computing nodes via gRPC and MQTT protocols.
- Serves as the foundation of 4 IoT R&D projects at La Salle IoTICAT (IoT Institute of Catalonia).

PUBLICATIONS

Amo. D, Usart. M, Grimalt. C, **Chen, J**. *Human context in Sentiment Analysis symbolic technique*. Salamanca, Spain: Learning Analytics Summer Institute. CEUR Workshop Proceedings (CEUR-WS), 2022.
Amo. D, Donate. B, José. F, **Chen, J**. *Towards an ethical data literacy proficiency: a Moodle logs analytical tool*. Arequipa, Perú: XII Jornadas Internacionales de Campus Virtuales, 2022.

ACTIVITIES

Senior Thesis for La Salle University Marketing representative project	2022
Mercari Apprenticeship & Moku-moku project, Tokyo, Japan (Remote)	May 2021 - Present
La Salle Ambassador	Sep 2020 - Present