

# Valencia Arlin Halim

valenciaarlin.halim@gmail.com

linkedin.com/in/valenciaarlinhalim | github.com/valenciaaaaalim | valencialim.com

## WORK EXPERIENCE

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### Product Design Engineer

May 2025 - Aug 2025

SPACElogic, Singapore

- Delivered an automated calibration workflow for 67 interactive modules, achieving 100% pointing accuracy and reducing rework risk in a commercial deployment.
- Managed and engineered a \$6000 installation for Singapore Art Museum, coordinating stakeholders and vendors to deliver 100% up time in the 3-month public showcase.
- Implemented a structured delivery workflow across design and engineering, improving cross functional coordination and delivery efficiency by 50%.

### Software and UX Engineer

Feb 2025 - Apr 2025

Vidacity, Singapore

- Engineered a 3D operations simulator in GAML to test resource allocation trade offs using dynamic trash infill data, reducing cleaner travel distance by 50% and supporting scenario based planning.

### UI/UX Designer and AI Researcher

Aug 2023 - Aug 2024

Syzl, Toronto, ON, Canada

- Led end-to-end UI/UX design including user flows, wireframes, mockups and prototypes, increasing customer conversion by 49% through user research and workflow redesign across core product journeys.
- Spearheaded a 1 day re-brand and an agnostic design system, enabling agile development, saving \$2,000.
- Built and migrated a project management system, reducing tooling costs by \$2,500 and improving delivery visibility.
- Coordinated usability testing with 10 cross functional stakeholders, converting feedback into prioritized changes with clear delivery owners.
- Drove go-to-market by producing marketing collateral and customer success stories, increasing qualified leads by 60%.

### Product Design Engineer

May 2023 - Aug 2023

DBS, Singapore

- Delivered a customer facing banking feature that digitalized fund transfer dispute handling, translating stakeholder requirements into buildable workflows and using React JS, HTML, CSS, JSON, Cucumber.
- Accomplished the reduction of CSR costs by 20%, amounting to \$4 million in Singapore annually.

### Web Designer

Feb 2021 - Apr 2021

Urban Redevelopment Authority, Singapore

- Revamped an internal website to reflect organizational changes, improving content usability for internal stakeholders.

## PROJECTS

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### Software and UX Engineer, SUTD Open House Photo Booth

Jan 2025 - Feb 2025

- Built and deployed an AI co-creation photo booth, serving 160 users with an end to end flow from capture to print.

### Product Designer, AI x Humans in Car Design

Feb 2023 - Apr 2023

- Designed Neptinium, a race car shell with EV hot swap and active aero features using CAD, generative design and Arduino, showcased at the Singapore Design Week 2024.
- Established an AI assisted design workflow to optimize iterations by 12.5x and published it as a design book to NLB, securing sponsorships from SUTD, Figma, Tensquare, DBCS.

### Product Designer, Sentiment Analysis Using Machine Learning

Jan 2023 - Apr 2023

- Built an ML-powered sentiment analysis pipeline using web-scraped data to identify product improvement areas.

## EDUCATION

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### Singapore University of Technology and Design, Singapore

Sep 2021 - May 2026

- Master of Science in Technology Entrepreneurship
- Bachelor of Science in Design and Artificial Intelligence (Honors Distinction), Enterprise Track
- Minor in Computer Science

### Zhejiang University, China

Sep 2024 - Jan 2025

- Overseas Study Exchange Program at School of Management as a Senior Scholar

### National University of Singapore, Singapore

Aug 2023 - Jul 2024

- NUS Overseas Colleges Toronto-Waterloo Graduate
- Awarded the NUS Venture Initiation Program Grant of \$10,000

### University of Toronto, Canada

Aug 2023 - May 2024

## CERTIFICATIONS

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- Google Cloud Certified Professional Machine Learning Engineer
- AI for Industries Course, AI Singapore

## SKILLS

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**Design skills:** UI/UX, User Research, Figma, Webflow, Wireframes, Mockups, AutoCAD, Rhino, Grasshopper

**Programming skills:** Python, Cucumber, HTML, JSON, CSS, React, JS, GAMA, Deep Learning, Artificial Intelligence

**Business skills:** Project Management, Product Management, Entrepreneurship