

# Glady Dennyson Thomas

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## EDUCATION

### Master of Science, Computer Science

University of Illinois at Chicago (UIC)

Aug 2019 - May 2021

GPA: 4.0/4.0

### Bachelor of Engineering, Computer Engineering

University of Mumbai, India

Aug 2015 - May 2019

GPA: 8.94/10

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## EXPERIENCE

### Software Engineer (AVP)

Mar 2024 – Present

Barclays, Whippany, NJ

- Building Barclays' next-gen Market Risk reporting platform, a unified real-time analytics framework that consolidates multiple reporting workflows into a single system, enabling self-service, on-demand analytics across asset classes.
- Achieved a ~3x reporting speed improvement through a new business-agnostic reporting framework built with TimescaleDB, ShardingSphere, Java, Angular, and AG Grid to support real-time risk insights.
- Developed UI workflows for the FRTB Standardized Approach (SA) platform, improving the speed and clarity of reviewing large capital and risk datasets and enabling faster sign-offs.

### Software Engineer (Analyst)

July 2021 – Mar 2024

Barclays, Whippany, NJ

- Built the control and reconciliation layer of the Market Risk portal, enabling faster detection and resolution of daily data breaks and movements through UI controls across multiple business areas.
- Led the end-to-end development of the UI framework overseeing the value-at-risk (VaR) numbers, significantly improving the accuracy and efficiency of data input, sign-off, and publication processes.
- Contributed across multiple layers of the strategic cross-asset portal for Market Risk, replacing 4+ legacy systems to improve data monitoring, configuration, reconciliation, and overall operational efficiency.

### Software Engineer Intern

Sep 2020 – May 2021 (Part-time)

CCC Intelligent Solutions, Chicago, IL

- Enhanced the post-accident guidance app (Vue.js, Java, Quasar) for clients such as Toyota, improving accessibility by ~85% and achieving WCAG 2.1 AA compliance by strengthening screen reader support, navigation, and color contrast.
- Contributed to the backend of the Claims Management System, supporting data processing and display for a platform handling 10M+ insurance claims annually.

### Graduate Student Developer

May 2020 – Aug 2020

University of Illinois at Chicago (UIC), Chicago, IL

- Developed a privacy-preserving architecture for Digital Contact Tracing (DCT) to help curb COVID-19, targeting ~85–90% efficiency in secure data matching.
  - Contributed to implementing private set intersection and handshake protocols to prevent relay attacks using Kotlin, Java, Android SDK, Firebase, and GCP, with prototype tests showing sub-second queries and <0.1% battery impact.
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## TECHNICAL SKILLS

**Languages:** Python, Java, C, TypeScript, HTML5, CSS

**Frameworks & Libraries:** Angular, React.js, AG Grid, Spring Boot, React Native, Jasmine, RESTful APIs, Bootstrap

**Databases & Data Infrastructure:** TimescaleDB, PostgreSQL, MySQL, MongoDB, Apache ShardingSphere

**Tools:** Git, SVN, IntelliJ, Visual Studio Code, Android Studio, Microsoft Office, JIRA

**Methodologies:** Agile, Scrum, SAFe (Scaled Agile Framework)

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## PROJECTS

### Smart Travel Companion – FlyMinder (Copilot Studio, Azure Functions, Power Automate)

Oct 2025 – Present

- Building a context-aware flight assistant that sends personalized WhatsApp reminders using Copilot Studio and Azure Functions, leveraging event-driven automation to help travelers plan better and avoid missed flights.

### Crowdsourced and Autonomous Vehicles Impact on Ride-hailing (Java, SQL)

Jan 2020 – April 2020

- Developed a model to analyze how customer-to-cab assignments impact system performance, including customer wait times and cab idle cruising, comparing crowdsourced and autonomous vehicles.
- Observed a 32% higher profit for Autonomous vehicles with a tradeoff for customer wait time.

### Share a taxi ride – Accompany (Android-Java, Firebase, Google Maps APIs)

Aug 2018 – July 2019

- Recognizing Mumbai's high population density, developed a location-based application that enables users to share taxis and private transport, reducing travel costs by ~30% and connecting commuters with common destinations.
- Published "Cost Optimized Navigation System for Multimodal Routes" at the IEEE 5th I2CT 2019, Pune, India.

### Tweak English Learning App (Undergraduate Venture)

Oct 2017 – Aug 2019

- Founded a student venture to help non-native English-speaking students succeed in English-first settings.
- Led a 14-member team with college funding and support to take 4 English-learning [Android apps](#) from 0 to 1, managing end-to-end from conceptualisation and design to build and launch on Google Play.