

# DAHYUN “DANY” KO

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[Github](#) [LinkedIn](#) [Portfolio Website](#)

## SUMMARY

Junior Software Developer with diverse co-op experiences in open-source projects, QA, and DevOps. Skilled in object-oriented programming in C# and Java. Achieved a 90% reduction in smoke test time through test automation in Azure CI/CD pipelines. Upgraded the JDK version of Apache big data projects and contributed to the open-source community. Proactive and independent, with a strong ability to adapt in fast-paced environments.

## TECHNICAL SKILLS

- **Programming Languages:** C#, Java, JavaScript, TypeScript, Python, Groovy, YAML, HTML, CSS
- **Infrastructure:** Linux (RHEL), Nginx, Jenkins, Docker, MS Azure, Apache Ambari/Hadoop/Kafka
- **Web Development:** ASP.NET Core, Node.js, React.js, Flask, GraphQL, Tailwind CSS, Bootstrap, Vite
- **Testing & Automation:** Playwright, Selenium, NUnit, xUnit, Postman, Azure DevOps Pipelines
- **Databases:** MySQL, MongoDB, PostgreSQL, MS SQL Server, Visual FoxPro
- **Version Control:** Git & GitHub, Bitbucket, Sourcetree
- **Software Development Principles:** Scrum, Agile, Object-Oriented Programming (OOP)
- **Development Environments:** IntelliJ, Visual Studio, VS Code, Android Studio, Apache Tomcat, Maven

## WORK EXPERIENCE

### SOFTWARE ENGINEER CO-OP

Acceldata - Kitchener, ON, Canada

Jun 2025 - Present

- Led the JDK upgrade for Apache-based big data projects, debugging runtime issues under JDK 17.
- Maintained a customized Apache Ambari fork on RHEL, and contributed patches to the open-source community.
- Integrated Apache Ambari 3.0.0 into the internal platform, resolving major compatibility issues during the merge.

### QUALITY ANALYST CO-OP

Ontario College Application Service (OCAS) - Guelph, ON, Canada

Jan 2025 - Apr 2025

- Reduced test time by 90% (1 hour to 5 minutes) through UI smoke test automation for .NET and TypeScript webs.
- Integrated automated tests into Azure DevOps pipelines, enabling the entire process to complete in 8 minutes.
- Independently led the automation project, taking initiative to drive collaboration with cross-functional teams.
- Designed automated test strategies that identified numerous issues prior to deployment.

### DEVOPS ENGINEER CO-OP

Virtual and Augmented Reality Lab (VARLab) - Waterloo, ON, Canada

Sep 2024 - Dec 2024

- Developed Jenkins pipelines to automate testing, reporting, and deployment for Unity and Node.js projects.
- Automated web app containerization using Docker and integrated into Azure Container Registry for deployment.
- Optimized server memory usage by 28%, reducing it from 242.9GB to 174.8GB through automated scripting.
- Managed company's web hosting servers and integrated them into the LMS platform (D2L) using the LTI protocol.

### DATA SPECIALIST CO-OP

Inventory Management Analysis Ltd. - Tillsonburg, ON, Canada

May 2024 - Aug 2024

- Conducted data collection in Wisconsin, U.S, collaborating closely with clients to ensure project success.
- Quickly adapted to client requirements in data refinement, improving data quality and accuracy.
- Developed a web application with React.js and GraphQL to improve the UI/UX of internal company web services.

PROJECTS

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UNITY 2D PLATFORMER GAME BY TEAM PANDASAURUS

C#, Unity, Git & GitHub, Azure DevOps

- Collaborated within a 9-person team using Azure DevOps and Agile methodology to create project management diagrams, improving workflow efficiency and achieving a 75% task completion rate (40 out of 53 tasks closed).
- Implemented an audio manager that operates across all game scenes and effective scene flow management.

VOLUNTEERING

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FOOD SORTING VOLUNTEER

May 2025

Food Bank of Waterloo Region

- Unloaded bulk food bins and sorted items into categorized boxes for community distribution.

FOOD SORTING VOLUNTEER

Mar 2025

Guelph Food Bank

- Checked the contents of donated food boxes and categorized the items based on food type.
- Sorted and labeled repackaged food items with names and expiration dates.

WEB DEVELOPER VOLUNTEER

Mar 2024 - May 2024

Afiinity Mentorship Foundation

- Volunteered in a React.js-based web development project as a 5-developer team for a non-profit organization, utilizing the Azure DevOps platform and Agile methodology.
- Actively engaged with the client through weekly meetings to share and incorporate their requirements, continuously evolving the project scope as we progressed.

EDUCATION

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COMPUTER PROGRAMMING & ANALYSIS

Conestoga College | 2022 - Present (2026)

Advanced diploma in Applied Computer Science & IT

- GPA 3.92
- Participated in Introduction to Indie Game Development in Fall 2023 and Winter 2024.

FASHION INDUSTRY

Incheon National University | 2015 - 2020

Bachelor's Degree in Home Economics

- GPA 3.73
- Exchange student program at the University of Winnipeg, MB, Canada