

ARDA BERKTIN

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EDUCATION

University of Victoria Faculty of Engineering and Computer Science Bachelor of Software Engineering (4 th Year)	September 2022 – Present Victoria, BC, Canada Expected Graduation: 2027
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SKILLS

- **Languages:** C, C#, C++, Java, Python, TypeScript, JavaScript, SQL,
- **Frameworks:** .NET Core, React, React Native, Angular, Node.js
- **Infrastructure & Tools:** Docker, AWS, PostgreSQL, Redis, RabbitMQ, Firebase, Linux, Git

PROFESSIONAL EXPERIENCE

Dell Technologies — Software Engineer Intern	Jun – Aug 2025
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- Optimized simulated SSD performance by **30%** by integrating the Flexible Data Placement (**FDP**) technology using C++ and Python scripts.
- Scaled simulated SSD capacity by 512x (up to 512 TB) by implementing **NumPy** memory-mapped arrays, enabling large-scale testing across multiple hosts.
- Validated the technical viability of Flexible Data Placement (FDP) for enterprise deployment by conducting rigorous Write Amplification Factor (WAF) analysis on NVMe SSDs.

Co-Founder @ Bankamatics — Software Engineer	Jan – April 2025
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- Architected a scalable fintech mobile application using a Dockerized **.NET/C#** backend (Onion Architecture) and **React Native** frontend to facilitate personal finance management.
- Engineered an asynchronous transaction ingestion system using **RabbitMQ** and **PostgreSQL**, designed to handle high-concurrency workloads.
- Implemented **Plaid API** integration for real-time bank linking and secured user data using **JWT** authentication with refresh token rotation.
- Managed the full product lifecycle, from designing UI/UX in Figma to researching library security/licensing, culminating in a pitch to university stakeholders.

INSPIRE UVic — Software Engineer Intern	Sep – Dec 2024
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- Created a learning platform for UVic, integrated with the LMS, achieving a **20%** increase in assignment completion during pilot testing.
- Transformed insights from 180+ student interviews into technical user stories, deploying full-stack features using **React**, **Node.js**, **TypeScript**, and **Firebase** that increased user retention.

ARD Technologies — Software Engineer Intern	May – Sep 2024
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- Modernized a high-traffic government portal by refactoring legacy components into responsive **Angular**/ **.NET Core** architectures, reducing code redundancy by 35%.
- Selected to lead Pull Request (PR) reviews for the intern cohort, ensuring code quality standards and managing staged deployments.
- Designed and implemented **RESTful** API endpoints to support new backend functionality, ensuring seamless integration and improving maintainability by refactoring legacy components.