Rob Das

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Professional Summary

As a senior software developer with over 20 years of experience, Rob Das has used his combination of computing science degree, I.T. training, and years of progressive industry experience with mission critical, enterprise environments, to deliver solutions that address specific business needs. By specializing in the applications domain, Rob has gained valuable experience across all aspects of the design, deployment, and operations lifecycle. Rob's soft skills include systematic and methodical problem solving, diplomatic people skills, and clear, logical communication.

Current Skills

- Agile/Scrum
- Azure Development
- Azure DevOps
- C#.NET
- Common Design Patterns
- Docker Containers
- Documentation
- Frontend: React, Angular, Bootstrap
- GitHub Copilot AI Paired Programming
- Html, JavaScript, CSS
- Microsoft Entity Framework and LINQ
- Microsoft Identity Platform
- MVC.NET
- .NET Web Development
- Node, NPM
- PowerShell and Python scripting
- Programming, Coding, Debugging
- Requirements Analysis
- RESTful API
- Software Design
- SQL-Server, Oracle, Cosmos-DB
- Systems Analysis
- Test Driven Development
- Unit Testing
- Version Control Systems
- Visual Studio and VS Code

Certification

- Python Certified Professional (2025)
- Microsoft AI Fundamentals (2024)
- Microsoft Azure Fundamentals (2020)
- ITIL Foundation (2007)
- Oracle DBA OCP (2004)
- Oracle Developer OCP (2000)
- Docker Foundations Professional (2025)
- Microsoft Azure Developer (2021)
- CIPS certified ITCP (2009)
- Microsoft Certified Professional (2006)
- Java 2 Certified Programmer (2001)
- CIPS certified I.S.P. (1998)

Education

University of Alberta, Bachelor of Science in Computing Science (1989)

Experience   (2001 – 2025)

1. DTEK Consulting Services Ltd   (2009 – Now)
   Owner, General Manager, Consultant

<u>Clients to Date</u>

EPCOR Utilities, APEGA, AMA, City of Edmonton, GE, Government of Alberta

- Consulting work with each of these clients is detailed in the pages below.
- Consultants at DTEK alternate between client work, professional development, and internal projects.
- More information: *https://rob-das-win.azurewebsites.net/about*

<u>Internal Projects</u>

Completed all work on the following internal projects.

Systems Administrator, Infrastructure Project #2   (Jan 2025 – Nov 2025)

- Active Directory domain migration and I.T. infrastructure realignment project.
- Tools used: AD DS; DNS Manager; Hyper-V; Linux Mint; Server Manager; WSUS; PowerShell; ChatGPT;
- More information: *https://robidas.github.io/static-site/ad-2025.pdf*

Front-End Developer, Angular Project   (Apr 2024 – Dec 2024)

- Redeveloped "DTEK Online Store" as "DTEK Online Shopping", this time with Angular on GitHub pages.
- Tools used: Angular; GitHub Copilot; GitHub hosting; NgRx RxJs; Redux; Typescript; Karma/Jasmine;
- More information: *https://github.com/robdas1/ng-shopping*

Front-End Developer, React Project   (Jun 2023 – Mar 2024)

- Developed "DTEK Online Store", an eCommerce simulation site, exploring hosting React apps on Azure.
- Tools used: React; html/CSS/JavaScript; JSX; Azure app services; Azure Devops; docker; ftp-deployment;
- More information: *https://rob-das-win.azurewebsites.net/Documentation/OnlineStore*

Full-Stack Developer, Azure Project   (Jan 2022 – May 2023)

- Completed the "AzureDev" project, migrating the on-prem corporate website to run in the Azure cloud.
- Modernized the architecture using cloud design patterns including app services, APIs, microservices.
- Secured the cloud app with Microsoft Identity platform using Microsoft Entra ID and Key Vault.
- Tools used: C#.NET; AAD (Entra ID); Azure App Services; Azure Functions; Azure DevOps; APIM; Cosmos DB; Git; JWT; Key Vault; LINQ; microservices; MSAL.NET; PowerShell; RESTful API; YAML CI/CD pipeline;
- More information: *https://rob-das-win.azurewebsites.net/html/README.html*

Certification-Based Research and Study   (May 2020 – Dec 2021)

- Professional development: full time student, researcher, author.
- Passed AZ-900, AZ-204 exams to earn the designation "Microsoft Certified Azure Developer" and kept designation up to date by passing the annual renewal exams.
- Wrote my own textbook and published it online:
    https://robidas.github.io/static-site/Exam-Prep-AZ-204.pdf

<u>Other Accomplishments</u>

- Independent Research and Study   (Jan 2018 – Nov 2018)
- Infrastructure Project #1   (Nov 2015 – Jul 2016)
- University Courses   (Feb 2012 – Dec 2012)

2. **EPCOR Utilities (Dec 2018 – Apr 2020)**
   Senior Software Developer

- Consulting contract at EPCOR, a Canadian utilities company, working with the CRM team to provide development and operational support to applications including My Accounts, PMDB, and GeoFIT.
- Developed an intranet web-based performance monitoring database application (PMDB) to manage customer service quality in the energy services call center. Linked PMDB to the HR system to get reporting lines used to enforce employee confidentiality and role-based authorization. Created an ETL process to import legacy system data and created an aging mechanism for employee data.
- Upgraded the Customer Engineering Services module of My Accounts web portal and developed a fire hydrant flags component for the GeoFIT asset management application.
- Provided development, testing, and deployment services to other applications as needed.

  Tools used: Angular; ASP.NET MVC Core; Azure DevOps; Bootstrap framework; C#; Entity Framework; Git; html/css/javascript; IIS; Jenkins; Jira; jQuery; LINQ; node; npm; Octopus; Oracle APEX; PowerShell; React; Serilog and Seq logging; SQL Server; Toad for Oracle; Typescript; Visual Studio/VS Code; Windows Server

  Best practices: agile scrum; code reviews; enterprise architected environment; low code development; object-oriented programming; quarterly release management; requirements analysis; software design; unit testing; version control systems; web portals development

  Database: SQL Server; Oracle

3. **DTEK Consulting Services Ltd   (Jan 2018 – Nov 2018)**
   Independent Research and Study

- Professional development activities: full-time researcher, systems administrator, software developer.
- Updated the company's corporate network infrastructure, previously created in 2015, to more closely replicate common enterprise environments by using the Hyper-V virtualization framework to host virtual machines that served as domain controllers, file, database, TFS, web, batch job, and application servers.
- Redesigned, developed and deployed the company's corporate website to the new network infrastructure using then-current (as of 2018) versions of .NET Core, Bootstrap, React and Angular.

4. **APEGA   (Nov 2016 – Dec 2017)**
   Senior Web Developer

- Consulting contract at APEGA, the Association of Professional Engineers and Geoscientists of Alberta, working with the application development team in the role of senior developer, assisting with the Registration Renewal Competency Based Assessment (CBA) project, for APEGA's self-service center portals.
- Provided guidance on modifying legacy systems by using design patterns and best practices, demonstrating how to refactor disorganized code to be maintainable, and created a suite of unit tests for business logic, allowing developers to hand over high-quality code.
- Produced all project deliverables as per requirements, with many quality improvements to implement separation of concerns, domain service and repository layers, and encapsulation of legacy code with the façade design pattern.
- Delivered high quality, well written, thoroughly tested code for all project deliverables.

Tools used: ASP.NET, MVC.NET and Web Forms; Atlassian cloud-based tools (Jira, Confluence, Bitbucket, Bamboo); Bootstrap framework; C#; html/css/javascript; IIS; jQuery; LINQ; node; npm; NSubstitute; NUnit; SQL Server; Stored Procedures; version control systems; Visual Studio; Windows Server

Best practices: Agile Scrum and Kanban; code reviews; software design patterns; domain driven design; enterprise architected environment; interactive web development; Web portals development; object-oriented software development practices; refactoring; unit testing; cloud-based project management tools

Database: SQL Server

5. AMA   (Aug 2016 – Oct 2016)
Senior Web Developer

- Consulting contract at AMA, the Alberta Motor Association, assigned to the Eden project – online driver education admin system replacement.
- Developed a location module to manage all AMA locations organized hierarchically, and present them graphically as a collapsible tree, using Bootstrap Treeview, and created all views based on wireframe mock-ups developed by user experience experts.
- Assisted with development of unit tests and integration tests.
- Took ownership of the first user story "student program selection by location", for delivery into production.

  Tools used: ASP.NET Core MVC and Web API; Bootstrap framework; C#; html/css/javascript; IIS; jQuery; LINQ; NHibernate; node; npm; NSubstitute; Selenium testing framework; SQL Server; TFS; XUnit

  Best practices: automated testing; code reviews; enterprise architected environment; intuitive user experience; model-view-controller; object-oriented programming and design; object relational model; repository design pattern; requirements analysis; responsive web design; software design

  Database: SQL Server

6. DTEK Consulting Services Ltd   (Nov 2015 – Jul 2016)
Infrastructure Project #1

- Internal project: full time web developer, technician, systems administrator, project manager.
- Installed Cat5e ethernet cables inside the walls, mounting and soldering RJ45 jacks and wall plates, to connect offices together using secure wired connections instead of Wi-Fi
- Built a business network for corporate admin, software development, and web hosting, using modems, routers, switches, servers, registered domain names, static IP's, port-forwarding, virtual hosting.
- Installed, configured, and tested then-current (as of 2016) IIS extensions for ASP.NET Core 1.0 on the external server, and used it to develop and host DTEK's custom-built company website.

7. City of Edmonton   (Aug 2015 – Oct 2015)
Web Developer

- Short-term contract to assist with refactoring of a .NET application.

8. **City of Edmonton   (Feb 2013 – May 2015)**
   Web Developer

- Consulting contract at the City of Edmonton Current Planning, participating in the eServices web portal project to provide online access for citizens to conduct all their business needs with the City of Edmonton.
- Designed and built cross-app functionality: login, reg, and password recovery; corporate branding look-and-feel; remote logging; exception management; user profiles; granular role and permission level security; separate admin site; site navigation; landing page rotating banner; browser plugin detection.
- Assisted QA team to develop test suites in TFS.
- Refactored business logic to follow a layered application architecture.
- Participated in version 2 of the eServices portal: the street vendor business licensing module.

   Tools used: Ajax; Angular; .NET framework; AutoFac DI; Bootstrap; C#; Colorbox; Entity Framework; html/css/javascript; HTTP Handlers; Microsoft Identity; IIS; jQuery; JSON; Kendo UI; LINQ; Log4Net; master/content pages; MIME types and plugins; Modernizr; MVC.NET and Web Forms; node; NPM; Python; ScrumDo; security (login, roles, permissions); Source Safe; SSMS; Stored Procs; Telerik Rad Controls and Kendo UI; TFS; Unobtrusive jQuery validation; user controls; web services; XML Sitemap

   Best practices: agile scrum; code reviews; data driven web development; role-based security; dependency injection; object-oriented design; prototyping; requirements analysis; responsive web design; service-oriented architecture; software design; standardized website look-and-feel

   Database: SQL Server

9. **DTEK Consulting Services Ltd   (Feb 2012 – Jan 2013)**
   University Courses

- Professional development activities: full-time student.
- Took a 3-course sequence from Athabasca University and got straight A's
  - COMP 266 Introduction to web development
  - COMP 348 Network programming
  - COMP 466 Advanced technologies for web-based systems

10. **GE   (Apr 2011 – Jan 2012)**
    Software Developer

- Consulting contract at General Electric, Intelligent Platforms.
- Provided software development services for Proficy SOA, GE's manufacturing execution system which implements manufacturing industry standards and best practices.
- Assisted with projects for localization, logout automation, and migration from desktop to browser.

   Tools used: .NET; Balsamiq; C#; Confluence enterprise wiki; Daemon Tools; IIS; IL-Spy; LINQ; NUnit; Python; ReSharper; Silverlight; SQL Server; Subversion source control; Team City; TFS; Visual Build Pro; Visual Studio; WCF; WPF; XAML

   Best practices: agile; build automation; code reviews; continuous integration; MVVM and MVC software design pattern; object/relational data mapping service; object-oriented development; SOA; unit testing

   Database: SQL Server

11. **Government of Alberta   (Sep 2009 – Mar 2011)**
    Systems Analyst

- Consulting contract at the Government of Alberta Department of Energy, supporting the following applications: corporate accounting and reporting system, quarterly reporting, information letters, oil royalty and tenure web forums, time entry and reporting, contract management system, contract compiler, and freehold mineral tax.
- Assisted in moving the contract management system's Oracle backend to SQL Server.
- Worked on the capacity planning project, migrating applications onto new servers.
- Participated in planned application upgrade releases, system integration testing, disaster recovery planning and testing, documentation of use cases, deployment procedures, migration and disaster recovery plans.

  Tools used: ASP.NET; Azman authorization Manager; C#; Crystal Reports; HP Quality Center test automation tools; html/css/javascript; Ibatis; IIS; Infragistics; Log4net; Microsoft Office; Microsoft Project; Microsoft Access; .Net Remoting; Oracle; SOAP; SharePoint; SQL Management Studio; SQL reporting services; stored procedures and triggers; T-SQL; UNIX; VB.Net, VB Script; Visual Studio; Windows Server

  Best practices: code reviews; encryption; enterprise architecture (GAEA); N-tier architecture; object-oriented development; regression testing; source control; test driven development; systems analysis; UML; unit testing

  Database: SQL Server; Oracle; Access

12. **Sierra Systems, Edmonton   (Apr 2001 – Jan 2009)**
    Consultant

    Clients: Workers Compensation Board of Alberta, Edmonton Police Service

13. **Workers Compensation Board of Alberta   (May 2006 – Dec 2008)**
    .NET Developer

- Worked as part of an application maintenance and support services team.
- Served as lead developer for the LCR web-application.
- Served as application support coordinator for the DECC application.
- Provided technical support for PC-Bond and CLMS.

  Tools used: .NET; C#; Crystal Reports; DB2; IIS; html/css/javascript; jQuery; Python; SOAP; stored procedures; Source Safe; T-SQL; VB.Net; Visual Studio; Windows Server; XML; XSLT

  Database: SQL Server; DB2 data warehouse; Oracle

14. **Edmonton Police Service, Information Technology Branch   (Apr 2001 – Apr 2006)**
    Systems Analyst

- Supported and maintained PROBE, the records management system of the Edmonton Police Service.

  Tools used: Oracle Forms and Reports; PL SQL; Java; Eclipse IDE; J2EE; Perl; VAX VMS; C/C++; Visio

  Database: Oracle

For earlier experience please ask

Projects

- "AzureDev", DTEK Consulting (2022–2023)
- "Registration Renewal", APEGA (2016–2017)
- "eServices", City of Edmonton (2013–2015)
- "Capacity Planning", Govt of AB (2010–2011)
- "LCR New Releases", WCB (2006–2008)
- "Project APSNet", EPS (2004–2005)
- "PMDB", EPCOR (2018–2020)
- "Eden Project", AMA (2016)
- "Proficy SOA", GE (2011–2012)
- "CMS Upgrade", Govt of AB (2009–2010)
- "Project PLATO", EPS (2005–2006)
- "MMR2", Govt of AB (2000–2001)

More information on LinkedIn: *https://www.linkedin.com/in/robidas/details/projects/*

Affiliations

CIPS (Canada's association of I.T. professionals)
- certified member since 1998
- served on CIPS Alberta, Board of Directors (2010–2012)

Edmonton .NET User Group
- member since 2015
- gave presentation on .NET Core development techniques (May 2017)