Jim Dillon

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SUMMARY

Senior full-stack software engineer with over 15 years professional experience. Proficient in event-driven architecture, AngularJS, RxJX TypeScript, jQuery, C#, .NET framework, .NET Core, ReSTful APIs, MV*, SQL, and NoSQL. Uses SOLID coding principles in Agile team environments to design and implement robust APIs and feature-rich applications.

SKILLS

• C#, .NET Core, .NET Standard, AWS IoT Broker, AWS Lambda, AWS DynamoDb, Entity Framework Core, NHibernate, Identity Framework, Unity, AutoFac, Ninject, MSTest, NUnit, MongoDB, SQL Server, SQLite, PostgreSQL, Oracle, Python, IIS, Apache, JavaScript, TypeScript, Angular, RxJS, jQuery, KnockoutJS, LeafletJS, RequireJS, Durandal, Bootstrap, HTML, CSS, SCSS/SASS, Jasmine, Karma, ArcGIS Desktop, ArcGIS Server, ArcObjects, ArcGIS JavaScript API, ArcPy, QGIS, PostGIS, GeoServer, OGR/GDAL, various AWS cloud services, SubVersion, Git (GitHub, Git Bash, GitFlow)

PROFESSIONAL EXPERIENCE

Kiosk Information Systems

November 2019 - Current   *Senior Software Engineer*   *Louisville, CO*

• Custom software to drive user interaction with fleets of client-branded kiosks for vending, bill payment, locker systems, and more.
• Leveraged AWS IoT Broker, Lambda, and DynamoDb framework to power a client portal for remote management and reporting.
• UI development accomplished using Angular/RxJS or WPF depending on requirements.
• Collaborated on a complex, event-driven hardware provider layer to orchestrate communication between various hardware components (card readers, bill dispensers, receipt printers, etc).
• Improved performance of Angular/RxJS applications by fixing asynchronous memory leaks and deadlock issues.
• Participated in daily code review sessions, provided mentoring to junior staff.
Tools Used: TypeScript, Angular, RxJS, C#, .NET Core, .NET Standard, WPF, SignalR, AutoFac, MSTest, AWS IoT Broker, AWS Lambda, AWS DynamoDb, Entity Framework, Azure DevOps, Git (GitHub, Git Bash, GitFlow)

Trimble

December 2017 - October 2019   *Software Engineer*   *Westminster, CO*

• Precision agriculture SaaS solution with desktop, web and mobile applications that interface with custom field hardware.
• Full-stack development of features and bug fixes across a variety of platforms.
• Mentoring interns and junior staff.
• Collaborating across teams to prioritize daily, weekly and monthly objectives.
Tools Used: C#, WebAPI, Entity Framework, Entity Framework Core, Unity, MSTest, MVC, ASP.NET, PHP, SQL Server, PostgreSQL, MongoDB, JavaScript, Angular, TypeScript, jQuery, KnockoutJS, RequireJS, Durandal, LeafletJS, Jasmine, Karma, Bootstrap, HTML, CSS, SCSS/SASS, OGR/GDAL, Git (GitHub, Git Bash, GitFlow)

Sentinel Data Analytics

September 2017 - November 2017   *Senior Software Engineer (Contract)*   *Denver, CO*

• Proprietary SaaS application related to booking private jet travel, fleet management, and flight data analytics.
Tools Used: C#, WebAPI, Entity Framework, Entity Framework Core, NHibernate, AutoFac, NUnit, Auth0, SQL Server, SQLite, IIS, JavaScript, Angular, TypeScript, jQuery, Bootstrap, HTML, CSS, SCSS/SASS, Jasmine, Karma, Git (GitHub, Git Bash, GitFlow)

The Rothwell Group

June 2013 - August 2017   *Lead Software Engineer*   *Lakewood, CO*

• Managed a team of developers working on several projects including a suite of industry-standard plate tectonic reconstruction software applications.
• Consulted to high-profile petroleum companies on custom integration projects.
• Lead developer on the Sentinel Data Analytics incubation project.
Tools Used: C#, MVC, WebAPI, Entity Framework, Entity Framework Core, NHibernate, Identity Framework, AutoFac, Ninject, MSTest, NUnit, Auth0, SQL Server, SQLite, PostgreSQL, JavaScript, Angular, jQuery, Bootstrap, HTML, CSS, SCSS/SASS, Jasmine, Karma, Python, IIS, Apache, ArcGIS Desktop, ArcGIS Server, ArcObjects, ArcGIS JavaScript API, ArcPy, QGIS, PostGIS, GeoServer, OGR/GDAL, various AWS cloud services, SubVersion, Git (GitHub, Git Bash, GitFlow)

MAXIMUS (Formerly Policy Studies, Inc.)

August 2011 - June 2013   *Senior Software Engineer*   *Denver, CO*

• Lead developer for Vicinity, a demographic analysis tool for targeted promotions of social programs.
• Participated in software demonstration to the Head of Health and Human Services, Kathleen Sebelius, in Washington D.C.
• Responsible for data modeling, web services architecture, database design and administration, and spatial data integration.
• Created a model for complex population analytics, user identity management, spatial data visualization, and workflow processing.
• Built a team of designers, programmers and analysts to support the application.
Tools Used: C#, MVC, Silverlight, NHibernate, Identity Framework, MSTest, JavaScript, jQuery, HTML, CSS, SQL Server, PostgreSQL, Python, IIS, ArcGIS Desktop, QGIS, PostGIS, SubVersion

Metro Wastewater Reclamation District

January 2005 - August 2011   *Senior Programmer*   *Denver, CO*

• Worked closely with CTO to develop and execute to successfully lead an $850k GIS implementation program with limited oversight.
• Coordinated users, IT staff, and personnel across 5 consulting firms to develop several custom GIS-enhanced applications:
  • Custom asset management web application
  • Land use and demographic modeling
  • AutoCAD/GIS Integration
  • Maintenance vehicle routing
  • Biosolids regulatory reporting system for agricultural uses of fertilizer products
• Facilitated interagency cooperation with several organizations including the Denver Regional Council of Governments, the City and County of Denver, the City of Aurora, the South Adams Water and Sanitation District, and the Utility Notification Center of Colorado.
Tools Used: C#, ASP.NET, Silverlight, Identity Framework, JavaScript, jQuery, HTML, CSS, SQL Server, PostgreSQL, Oracle, Oracle Reports, Python, IIS, Apache, ArcGIS Desktop, ArcGIS Server, ArcObjects, ArcGIS JavaScript API, ArcPy, PostGIS, GeoServer, OGR/GDAL

EDUCATION

Master of Engineering – Geographic Information Systems

September 2005 - May 2008   *University of Colorado*   *Denver, CO*

Bachelor of Arts – Geography, Environmental Sciences

September 2005 - May 2008   *University of Colorado*   *Boulder, CO*