

Montre Davis

Senior Software Engineer - Machine Learning Engineer

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PROFESSIONAL SUMMARY

Experienced software engineer passionate about designing and implementing efficient, scalable systems that solve complex problems. With over 10 years of experience, I have a strong background in full-stack development, cloud-native technologies, and building robust data solutions. My expertise spans mathematics, modern frameworks, cloud platforms, AI and Machine Learning, and data engineering tools, enabling me to create impactful solutions across industries. I thrive in collaborative environments, mentoring teams, and driving innovation through thoughtful design and implementation.

EDUCATION

- **Rice University:** Certification in AI/ML (July 2024 – Jan 2025)
 - **Coder Camps:** Full Stack .NET Certification (Jan 2015 – Apr 2015)
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SKILLS

- **Languages:** Python, TypeScript, JavaScript, C#, Go, Java, C++
- **Databases:** SQL Server, MySQL, MongoDB, DynamoDB, Azure Cosmos DB, PostgreSQL
- **Frameworks/Tools:** React, Node.js, Flask, Django, Docker, Kubernetes, Azure, AWS, GCP, GraphQL
- **AI/ML:** MLOps, TensorFlow, PyTorch, Keras, Scikit-learn, Hugging Face, and OpenCV
- **Development Practices:** Agile/Scrum, CI/CD, TDD, Microservices Architecture

PROFESSIONAL EXPERIENCE

Senior Software Engineer – Contract

San Francisco Forty Niners

Dec 2022 – May 2024 (1 year 6 months)

- **Production Data Systems:** Automated ETL pipelines using **Azure services and integrations (Databricks, Azure Functions, etc...)** to support scouting, R&D, and executive decision-making.

- **Application Redesign:** I helped redesign their proprietary software to be “mobile-first,” which included rebuilding the search, implementing more modular components, and improving the scout’s game day data entry experience.
 - **Data Integration:** Developed tools to extract data from NFL-provided PDFs and Excel files, ingesting structured data into **SQL Server** for analysis.
 - **Collaboration:** Worked closely with scouts, the Assistant GM, and directors to ensure seamless integration of new features and troubleshoot critical system issues.
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Senior Software Engineer – Full Time

Pantheon Platform

Dec 2020 – Dec 2022 (2 years 1 month)

- **Microservices Development:** Led the migration of billing services into a microservice architecture using **Django, GraphQL, and Kubernetes**.
 - Led a team of 4 (including myself) to create a self-service domain service using **Go, GraphQL, Docker, and Kubernetes**.
 - **Security:** Designed and implemented a robust 2FA solution for user authentication, ensuring compliance with modern security standards.
 - **Cloud Deployments:** Maintained CI/CD pipelines in **GCP**, automating deployment processes and enhancing service reliability.
 - **Cross-Team Collaboration:** Partnered with product managers and design teams to deliver customer-facing features efficiently.
 - **Scalability:** Implemented **GraphQL APIs**, improving query performance and front-end integration.
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Software Engineer – Contract

JP Morgan Chase

Apr 2020 – Jan 2021 (9 months)

- **Cloud Migration:** Contributed to transitioning legacy systems to **GAIA Cloud** with a focus on modularity and scalability.
- **API Design:** Developed decoupled APIs using **Spring Boot** (Java) and introduced enhanced logging for error diagnosis.
- **Refactoring:** Led the transformation of legacy .NET applications to modern **Java-based microservices** to improve maintainability.
- **On-Call Support:** Ensured smooth global handoffs during outages and coordinated with EMEA teams to address critical production issues.

Software Engineer – Contract

MedData

Apr 2019 – Apr 2020 (1 year)

- **API Integration & Automation:** Designed and developed an internal API to automate the onboarding process, integrating data from multiple sources such as **iCIMS**, **ADP**, and **Cherwell**. This provided a unified data flow for HR and Infrastructure teams, reducing onboarding time.
 - **Healthcare Application Optimization:** Enhanced the healthcare eligibility sweep application by optimizing algorithms and query execution plans in **SQL**, significantly improving accuracy and performance.
 - **Cross-Department Collaboration:** Partnered with multiple departments to gather requirements and prioritize feature development, ensuring alignment with organizational needs.
 - **Source Control Transition:** Mentored peers on transitioning from TFS to **Git**, enabling modern version control workflows and improving collaboration efficiency.
 - **Automation Tools:** Built robust automation scripts in **C#/.NET** to reduce manual processes for critical healthcare operations.
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Software Engineer – Contract

Shell Federal Credit Union

May 2018 – Apr 2019 (1 year)

- **Microservice Applications:** Designed and implemented microservices using **Node.js**, **Express**, and **MongoDB** to support internal workflows and external customer-facing services.
 - **Chatbot Development:** Built a chatbot using the **Quiq API** to handle customer inquiries, gather member details, and reduce response times, streamlining the customer service process.
 - **Internal Communication Platform:** Created "Shell TV," an internal video platform, to minimize email bandwidth issues and foster better team communication.
 - **ADA Compliance:** Maintained and updated the primary website to meet ADA compliance standards, ensuring accessibility for all users.
 - **Cloud Deployment Automation:** Utilized **AWS SDK** and **PowerShell** scripts to automate deployment processes, reducing errors and downtime.
 - **Team Support:** Provided mentorship and training to teammates on leveraging the **MEAN stack** effectively for internal applications.
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Software Engineer I – Full Time

Beck Technology

Jan 2016 – Aug 2017 (1 year 8 months)

- **AEC Industry Solutions:** Developed and maintained functionality for the DESTINI Estimator and Data Manager applications, focusing on improving project estimates and resource allocation in the construction industry.
 - **3D Model Takeoffs:** Integrated the **Navisworks API** to enable 3D visualizations and automated takeoff calculations, increasing accuracy and efficiency in project planning.
 - **Agile Development:** Collaborated with senior developers and stakeholders in an agile environment to refine requirements and deliver high-quality solutions on time.
 - **Continuous Learning:** Actively stayed updated on emerging technologies through training and applied new tools to improve existing systems.
 - **Collaboration:** Partnered with professionals from The Beck Group to refine product features and ensure alignment with user needs.
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Full Stack Web Developer – Contract

Red Cedar Solutions Group

Apr 2015 – Jan 2016 (10 months)

- **Web Applications:** Developed and maintained web applications for the Michigan Department of Education, ensuring high code quality standards through peer programming and code reviews.
 - **MVC Design Patterns:** Leveraged **C#/.NET MVC** to create scalable, maintainable systems with reusable components.
 - **Database:** Utilized **LINQ to SQL** and **Entity Framework** for data access and manipulation.
 - **Scrum Collaboration:** Worked closely with project managers during scrums and sprint planning to meet delivery timelines and maintain consistent velocity.
 - **UI/UX Enhancements:** Recommended and implemented design improvements, enhancing user experiences through intuitive interfaces.
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ADDITIONAL HIGHLIGHTS

- **Leadership:** Proven ability to mentor teams, perform code reviews, and improve project outcomes through collaborative leadership.