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# BRAD BURR

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84096 Riverton, UT | +1 801-360-2206 | brad@burrmail.com

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## Summary

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Senior Software Engineer with 25+ years of in-depth experience developing high-performance Windows applications using C++, C#, and SQL Server. Adept at full software lifecycle management, from concept to deployment, ensuring scalability and seamless integration of front-end and back-end systems. Strong expertise in database architecture, query optimization, and stored procedures within SQL Server environments. Skilled in full-stack web development, leveraging modern frameworks such as React, Node.js, and GraphQL to create dynamic and secure web applications. Proven ability to lead and collaborate across Agile teams, delivering innovative software solutions while focusing on quality, performance, and user experience. Continuously advancing technical proficiency through training and hands-on project work. Committed to driving technological innovation and maximizing business outcomes through effective software engineering practices.

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## Expertise & Abilities

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### Programming Languages & Frameworks:

- C, C++, C#
- Javascript, HTML5, CSS
- React.js, Node.js, Express
- MERN Stack, Sequelize, Mongoose
- jQuery, GraphQL

### Databases & Queries:

- SQL, T-SQL, MS SQL Server
- PostgreSQL, MongoDB
- Query Optimization & Stored Procedures
- Data Migrations & Database Design

### Tools & Development Environments:

- TFS, Jira
- RESTful APIs, PWA Development
- Version Control (Git/Github)
- Agile Methodologies

### Other Skills:

- Full Stack Development
  - Web Application Security
  - Cross-Platform Integration
  - Performance Optimization
  - Data Analytics & Reporting
  - Systemic Thinking
  - Interdisciplinary Collaboration
  - Cognitive Flexibility
  - Pragmatic Decision-Making
  - Practical Problem-Solving
  - Technical Expertise
  - Resilient Optimization
  - Precision in Execution
  - Conceptual Agility
  - User-Centric Insight
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## Experience

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### Senior Software Engineer II

04/1999 to 08/2024

#### Henry Schein One

American Fork, UT

- **Designed and implemented core features** for dental software systems, driving critical updates using C, C++, and C# to ensure seamless integration between the application interface and SQL Server databases.
- **Led data migration and optimization efforts**, executing complex T-SQL queries, stored procedures, and indexing strategies to boost system performance and reliability, ensuring the integrity of sensitive patient data.
- **Enhanced system performance** by identifying bottlenecks in existing code, rewriting critical algorithms, and optimizing resource usage to deliver a more responsive user experience for dental professionals.
- **Redesigned and refactored critical payment posting functions**, converting them from disorganized code into well-organized, shared stored procedures.
- **Collaborated with cross-functional teams** under Agile development methodologies, contributing to sprint planning, code reviews, and continuous integration workflows to improve development efficiency.
- **Provided training and mentorship to new employees**, guiding their development and integration into the team.
- **Engaged with customers to resolve critical workflow issues** within the application and addressed and fixed associated bugs.
- **Troubleshooted and resolved critical software bugs** post-deployment, performing root cause analysis and implementing code fixes that resulted in an overall 15% reduction in reported issues.

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## Projects

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- **My Portfolio (ReactJS App):** Developed and deployed a personal portfolio showcasing advanced React.js components and responsive design. [repo](#) | [deploy](#)
- **Text Shell (PWA App):** Built a progressive web application enabling offline use and data persistence using service workers. [repo](#) | [deploy](#)
- **SkyCast (3rd Party API App):** Integrated multiple APIs to deliver dynamic weather forecasts through a visually engaging interface. [repo](#) | [deploy](#)
- **Others:** Visit my [Github page](#) for more detailed project showcases.

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## Education and Training

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### University of Utah Coding Boot Camp

Full Stack Web Development

February 2024 – August 2024

University of Utah | Salt Lake City, UT

### Master's Degree in Accounting (Emphasis in Information Systems)

1988 – 1995

Brigham Young University | Provo, UT

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## Interest & Hobbies

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- Scuba Diving, Racquetball, Snowboarding, Swimming
- Hiking, Camping, Boating, Surfing
- Golf, Baseball, Tennis, Pickleball
- Faith and Family, Community Service