

# Samuel Fields

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## Education

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Raleigh, NC

North Carolina State University

Aug 2018 – May 2020

- **Degree:** Bachelor of Science, Computer Science (GPA: 4.00)
- **Class Rank:** 1 of 8699
- **Relevant Coursework:** Software Engineering, Operating Systems, IoT, Computer Security

## Experience

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Software Developer

Epic Systems

July 2020 – Present

EpicCare Inpatient

- Research, design, and implement new features to improve physician workflows.
- Implement smart card-based login and reauthentication.
- Migrate existing features from a Visual Basic desktop application to a new .NET web application.
- Perform workflow and performance testing on all new development projects.

Teaching Assistant

North Carolina State University

Jan 2020 – May 2020

CSC 326: Software Engineering

- Guided undergraduate students through hands-on software engineering labs meant to simulate a real-world agile work environment.
- Taught students about object-oriented programming, design patterns, unit testing, and other software engineering topics.
- Designed and developed a tool to detect plagiarism in student submitted design documents.
- Reviewed and provided feedback on hundreds of student software development projects.

## Projects

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### Shuffle: Music Party Game

- Developed a .NET Core web-based party game that lets players compete against one another to see who can guess the song first.
- Implemented SignalR to allow for real-time communication between the game server and the web client.
- Integrated with the Spotify API let users choose their own playlists, and to enable music playback directly in the browser.
- Hosted remotely through AWS with a full Continuous Integration/Continuous Deployment pipeline.

### BlackFish: Hardware Reservation Scheduler

- Built a reservation scheduling system into an existing NodeJS web application.
- Designed a priority scheduling algorithm that could support both pre-scheduled and next available time reservations.
- Implemented web sockets using socket.io to provide live schedule updates.

## Skills

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**Languages:** Java, C#, TypeScript, Python, M/Caché, C/C++

**Frameworks:** .NET Core, ASP.NET, Node.js, Spring, Hibernate, Express, React, Angular, Selenium

**Development Tools:** Visual Studio, Eclipse, Git, GitHub, SVN, Amazon Web Services