Josh Bowden
Computer Science

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Objective

- Spring 2018 – seeking a part-time software engineering or web development position
- 2+ years of professional experience as a software engineer building dependable software

Education

2016–2020   **B.S. Computer Science**, *Illinois Institute of Technology*, Chicago, IL.
GPA: 3.41/4.00 | Camras Scholar

Relevant Course Work

- Object Oriented Programming (Java)
- Data Structures & Algorithms (Python)
- Systems Programming (Linux & C)
- Computer Organization (theory-based)
- Discrete Structures (theory-based)
- Introduction to Algorithms (theory-based)

Work Experience

Summer 2018   **Software Engineer Intern**, *Relativity*, Chicago, IL, (upcoming).
Relativity's eDiscovery platform assists legal teams to find the truth, organizing terabytes of data.

Summer 2017   **Software Engineer Intern**, *Intelligent Medical Objects*, Northbrook, IL.
IMO links medical terms to industry billing codes, saving time and money with accurate billing.

- Worked on agile team of 5 using scrum methodology: daily stand-ups and two-week sprints.
- Implemented product purchase page using tax and credit card tokenization APIs (Angular 4)
- Integrated custom version tracking system with internal ETL tool (C#, Oracle PL/SQL)
- **Technologies: C# (ASP.NET), TypeScript (Angular 4), Oracle PL/SQL, Octopus**

2014–2016   **Software Engineer**, *Automated Vault Machine*, Buford, GA.
AVM is a startup that rents out secure lockboxes using fully automated, private storage.

- Architected on-premise account management system using client-server architecture.
- Implemented Two-Phase Commit engine for transactions over remote resources.
- Extensively used unit testing, integration testing, and end-to-end UI testing.
- **Technologies: C#, F#, WPF, Postgres, RabbitMQ, Vagrant, Windows Server, Linux**

Personal Experience

October 2017   **SASEhack 2017 – 1st Place Team**, *SASE National Conference*, Schaumburg, IL.

- On a team of four, we competed against 15 other teams.
- Prototyped a questionnaire chatbot to identify large scale issues within a community.
- Implemented webhook server in Python for the chatbot to respond with relevant questions.
- **Technologies: Python (Flask), DialogFlow (api.ai), Postgres**

mid-2015   **Prototype Compression Algorithm**.

- Prototyped compression algorithm using formula for calculating π at any given position.
- Reimplemented algorithm to take advantage of high-performance GPU acceleration.
- **Technologies: F#, C++/CUDA**

Skills

advanced   C#, F# | Java, Kotlin | JavaScript, TypeScript (Angular 4) | SQL (Postgres)
intermediate   Python, Scala, C/C++ | Android (Java/Kotlin) | Linux, Windows Server

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