

# Josh Bowden

## Computer Science

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### Objective

- Summer 2018 – seeking a full-time software engineering internship
- 2+ years of professional experience as a software engineer building dependable software driving day-to-day operations

### Education

2016–2020 **B.S. Computer Science**, *Illinois Institute of Technology*, Chicago, IL.

GPA: 3.71/4.00 | Camras Scholar | Dean's List | ITR Robotics Member

#### 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)

2012–2016 **High School Diploma**, *Duluth High School*, Duluth, GA.

### Work Experience

Summer 2017 **Software Engineering Intern**, *Intelligent Medical Objects, Inc.*, Northbrook, IL.

*IMO links medical terminology with industry billing codes, saving hospitals significant time.*

- 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, LLC*, Buford, GA.

*AVM is a startup that rents out secure lockboxes using 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 – 1<sup>st</sup> Place Team**, *SASE National Conference*, Schaumburg, IL.

- On a team of four, prototyped a chatbot to diagnose systemic issues within a community.
- With a dashboard, aggregate issues highlighted potential intervention by an organization.
- **Technologies: Python (Flask), DialogFlow (api.ai), Postgres**

mid-2015 **Prototype Compression Algorithm.**

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

### Skills

C#, F# | Java, Kotlin, Scala | JavaScript/TypeScript, Python, C/C++

Android, SQL (Postgres & Oracle PL/SQL), Mathematica | Linux, Windows Server