

# Alex Bruns

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## Education

2017 - 2020 (expected)  
University of Minnesota - Twin Cities  
**B.S. Computer Science**

2015 - 2017  
Normandale Community College  
**A.S. General Studies**

2012 - 2015  
Shakopee Senior High  
**High School Diploma**

## Work Experience

2019 - 2020  
Topl

### Sr. Software Engineer

- Worked on a series of web applications for clients using modern JS frameworks
- Handled System architecture & CI/CD pipeline design for multiple production applications

2018 - 2019  
Topl

### Jr. Software Engineer

- Developed a networking protocol from idea to implementation for sidechaining between multiple distributed networks
- Worked on multiple 100k+ LOC codebases in Scala, Java, and Python

2017 - 2018  
Topl

### Software Engineering Intern

- Helped write over 150 unit tests for a massive Scala codebase that ended up finding more than 50 exist bugs
- Presented & pitched project quotes to multiple prospective clients

## My Projects

### Scallion

Scallion is the programming language I've been developing over the last couple years. I've written a compiler for it in C from scratch. It's a massive undertaking, but has honed my skills as a C/C++ dev greatly.

### ExArb

ExArb is an automated arbitrage system I wrote while in high school that combined, web development, code optimization, and traditional alg. skills. It was deployed in 2017 and ran for more than 2 years making a net profit of over \$15k.

### Melzi

Melzi is an open source program used for writing technical documents. In essence, it uses a highly optimized topological search algorithm to order a series of inter-dependent paragraphs in such a way that no paragraph is placed in the document before all the concepts it depends on have been explained. It was originally proposed by a professor of mine as a throw away idea, and I decided to actually make it.

### StarTab

StarTab is a side-project / start-up I've been working on for a few months. It aims to be a white-label rewards and payments system for small businesses allowing them to deliver a Starbucks like digital customer experience without having to write a single line of code.

Find a full list of  
my skills on my website:

