Nick Mosher

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Objective
To find a Spring and/or Summer 2019 internship in backend or systems software engineering.

Skills
Languages: Rust, Scala, Java, ES6 Javascript/React JSX, C, Kotlin, Python
Tools: Unix shell (bash/zsh), git, build tools (Maven, Gradle, Sbt, Make, Cargo, Webpack), continuous integration (Travis CI, Jenkins), cloud hosting services (AWS, DigitalOcean, Heroku), Docker, Elasticsearch, Dialogflow, Kafka

Work Experience
Software engineering internship at **Intuit**   **June - August 2018**
  Developed a conversational UI for gathering product insights ("how many customers signed up last week?").
  Worked on a web application for tracking data lineage from ingestion to reporting.
Software engineering co-op at **Intuit**   **June - December 2017**
  Developed a client library for tracking user actions in web applications using ES6 javascript.
  Developed an ingestion server for tracking data using Scala and Apache Spark.
Software engineering intern at **Constant Contact**   **June - July 2016**
  Worked on an email backend system. Used Java 8 and Maven, learned about restful APIs. Used team-oriented git
  workflows (fork/PR, Jenkins CI), participated in team Scrum process.
Robotics Instructor at **Virginia Space Flight Academy**   **June - August 2015**
  Taught campers aged 11-17 about basic robotics using Lego Mindstorms and Arduino. Topics included sensor feedback,
  control flow, and an introduction to the PID control algorithm. github.com/nicholastmosher/PID

Other Experience and Independent Projects

eMiniJava Compiler   **Spring 2018**
  Wrote a compiler for a subset of Java called "eMiniJava" for RIT's CSCI-742, compiler construction. The compiler is
  implemented in Rust and generates JVM bytecode for execution. github.com/nicholastmosher/emjc
Flipper.io   **2017 - 2018**
  Learned Rust to build the Flipper console for interacting with embedded hardware.
  github.com/flipper-io/flipper
React, Redux, and Router seminar   **Spring 2017**
  Gave a seminar on React as a CSH major project. https://slides.com/nicholastmosher/react-redux-and-router
Easycom Android Library   **2015 - 2016**
  Wrote a library for interface-independent control of networked projects. github.com/nicholastmosher/easycom-core
Kudos Robot   **August 2014**
  Built a simple but versatile robotics platform. nicholastmosher.com/Kudos
FIRST Robotics Team 1829 "The Carbonauts"   **2011 - 2015**
  Served leadership roles doing programming, electrical, and mechanical work for robotics. http://a360.co/1FyOoYP

Education, Honors, and Awards   GPA: 3.6

  Software Engineering student at Rochester Institute of Technology (2015 - 2020).
  RIT Presidential Scholarship, RIT Computing Medal Scholarship, Redcom Software Engineering Scholarship.
  RIT Dean's List 2015-2018
  Member of Computer Science House at RIT.
              A current version of this resume may be found at nicholastmosher.com/Resume.pdf.