CALEB SMITH

SOFTWARE ENGINEER INTERN

CONTACT

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SKILLS

- MS Office/Google Suite: Expert
- C++: Advanced
- C#(.NET): Advanced
- SQL Server: Advanced
- NI LabVIEW: Advanced
- Interpersonal and presentation skills: Advanced
- Fusion 360: Proficient
- CLI Git and CI/CD: Proficient
- Python 3: Proficient
- Typescript: Proficient
- Linux Shell: Proficient
- MATLAB: Proficient
- Julia: Novice

TESTIMONIALS

"You definitely raised the bar on what we can expect from an intern. You came in strong and never let up"
- Patrick Steele, Lead Technical Architect at Autobooks

VOLUNTEER WORK

- Life Remodeled [2017, 2019]
- Children's church small group leader [2018 – 2020]
- Church youth group band [2014 – 2020]
- Church youth group leadership team [2017 – 2020]

HOBBIES

- Bible Study
- Longboarding, mountain biking, hammocking
- Weightlifting, running
- Accomplished drummer and struggling guitarist
- Juggling

EDUCATION

University of Michigan Ann Arbor College of Eng. [2020 – Dec 2023]
Computer Science Junior, 3.95 GPA, Dean's List & University Honors
- Tau Beta Pi (Engineering Honor Society) Electee
- Eta Kappa Nu (Computer Science Honor Society) Electee
- Completed Classes: *Programming & Intro Data Structures, Discrete Math, Applied Computational Machine Learning, Calculus 1-3, Physics 1&2*
- In-progress Classes: *Data Structures & Algorithms, Linear Algebra, Internet Foundations*

International Academy of Macomb [Aug 2016 – May 2020]
- Valedictorian, 4.4 GPA, 1550 SAT, 35 ACT

EXPERIENCE

Software Developer Intern at Autobooks [Jan – Aug 2021]
Full-time for eight months on all parts of a mid-sized Agile dev team.
- Developed APIs and Cloud Functions in C# with .NET Framework.
  - Refactored code to follow SOLID principles and industry-standard design patterns.
  - Co-constructed proof-of-concept client integration.
  - Migrated parts of the Data Access Layer from sprocs to ORMs.
  - Wrote Unit and Integration tests with mocked dependencies.
- Utilized relational database with SQL Server.
  - Wrote complex queries and modified sprocs, UDFs, and table schemas to fix bugs and support other changes in the app.
- Created and maintained UI pages written in TypeScript and ReScript with React and GraphQL.
- Extended coverage of TypeScript end-to-end automated test suite using Protractor for Quality Assurance.

FIRST Robotics Competition Team Lead Programmer [2017–2020]
Directed and mentored 10 students over 3 years to program teleoperated and autonomous robots in LabVIEW. Architected, implemented, and tuned robot software with PID feedback loops.

Michigan Mars Rover Team Localization Programmer [Fall 2020]
Simulated rover trajectories in Python to aid in testing sensor-filtering algorithms in a Linux environment.

Autonomous Drone Programmer [Fall 2020]
Extended drone library to autonomously navigate a maze in C++.

COVID-19 Intubation Box Lead Designer and Fabricator [April 2020]
Led robotics team to design and fabricate a shield for protecting those who intubate COVID-19 patients, used in eight hospitals. Wrote provisional Patent application.

Self-Taught Python 3 [Spring 2020]
Audited Stanford class and constructed Euchre simulator.