

CAMERON ALBERG

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EDUCATION

Georgia Institute of Technology

GPA: 4.0/4.0

M.S. in Computer Science, May 2024 (expected)

University of Illinois at Urbana-Champaign

Champaign, IL

B.S. in Engineering Mechanics, May 2017

- Senior Design Outstanding Achievement Award

Relevant Coursework

Data Structures & Algorithms, Operating Systems, Machine Learning, Computer Networks, Software Development

RELEVANT SKILLS & PROJECTS

Boggle Solver (boggle.calberg.me)

- Finds all word combinations of any Boggle board between 3x3 and 6x6 with a configurable input dictionary.
- React frontend with Spring Boot REST backend, containerized with Docker for easy deployment.

3D Printer Cost Analyzer

- Estimates part costs, taking into account print time, material usage, and maintenance costs gathered from the log file of a 3D printer.
- Written in Python. Data is managed with Pandas and exported to Excel, to facilitate non-technical use.

Stock Trader Simulator (trader.calberg.me)

- Interactive simulator for buying and selling stocks using real-time market data. Supports login, registration (with password hashing), and session storing.
- Python web app built with Flask and SQLite, extended from Harvard's CS50x programming course.

Utilities: Spring, React, Linux, Docker, SQL, Pandas, NumPy, Git, gRPC, JDBC, JUnit, Maven, AWS

Languages: Java, Python, C, C++, Javascript, HTML, CSS

EXPERIENCE

Insight Innovation Center - Nemera (www.insightpd.com)

Chicago, IL

Senior Development Engineer

May 2020—present

- Technical engineering lead for multiple commercial drug-delivery and medical devices, creating prototype concepts and developing them into fully realized designs for commercial production.
- Provide guidance for 2 junior engineers, defining best practices and managing task prioritization

Development Engineer

July 2018—May 2020

- Developed internal software to assist engineering team (data processing, cost analysis).
- Design, build and test concept prototypes and develop part geometry for commercial manufacturing.
- Create/manage documentation in accordance with ISO 13485 guidelines (risk analysis, design reviews, etc.).
- Communicate with clients regularly to provide progress updates, technical reports and presentations.

OneTrack (www.onetrack.ai)

Chicago, IL

Robotics Engineer

June 2017—July 2018

- Designed and developed hardware and software for the 1st generation of OneTrack – AI-powered cameras that integrate with forklifts to provide real-time information on warehouse operations and safety.
- Automated status lights of OneTrack system using microcontroller I/O (C++).
- Collaborated with software & electrical engineering teams to brainstorm concepts and define PDS.

LEADERSHIP

Founder and President

April 2014—May 2017

Makers at the University of Illinois at Urbana-Champaign (makersuiuc.com)

Champaign, IL

- Founded and led a hands-on design organization with 50+ members working on 6 separate projects
- Pioneered the university's 1st makeathon, a 36-hour product design competition
- Received the 2015-2016 Campus Award for Excellence in Public Engagement