

NIKOLAS LARSON

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EDUCATION

Middlebury College

Middlebury, VT

Candidate for Bachelor of Arts, Major in Computer Science, Minor in Mathematics

May 2027

- **GPA:** 4.00/4.00; 1530 SAT; College Scholar
- **Certifications:** Google Career Certificates Data Analytics Specialization
- **Relevant Coursework:** Data Structures, Math Foundations of Computing, Algorithms and Complexity
- **Programs & Grants:** Work Study, First-Year Explorer Grant, Harvard Business School Peek 2024, Boston Innovation Trek 2024, MiddChallenge 2024, Duke X NVIDIA Lab 2024, Middlebury Tapia Scholarship 2024

EXPERIENCE

Tarragon Systems

Cambridge, MA

Software Engineer Intern

July 2024-Present

- Improved the prediction engine's open set recognition accuracy by 53% within one month through hyperparameter optimization, saving customers over \$100,000 annually from over-ordering inventory
- Developed a mobile application for iOS and Android with Google OAuth 2.0 and Rest API's in under 3 weeks, reducing inventory-taking duration by 75% for dozens of customers

Mooslix.com

Chapel Hill, NC

Founder

June 2024-Present

- Built palm scanners that authenticate dozens of users with infrared imaging and deep learning algorithms
- Started a web application that processes hundreds of data points across security, payments, and check-ins
- Wrote over 100,000 lines of code integrating OpenCV, TensorFlow, Flask, Firebase, Node.js, and React Native

Z9 Security

Carrboro, NC

Software Engineer Intern

January-February 2024

- Designed and developed an Android application for the Google Play Store using Kotlin, XML, APIs, and BLE
- Collaborated with hardware and server-side engineers on firmware for a Fortune 200 company
- Reviewed elliptic-curve encryption programs and cybersecurity frameworks for secure data transmission

Merritt Precision Products, subsidiary of Mearthane Products

Apex, NC

Technical Engineer Intern

May-August 2023

- Documented dozens of quality control protocols, product schematics, and calibration records to pass ISO-9001
- Managed workflows through Smartsheets, Microsoft Visio diagrams, and other organizational apparatuses
- Revamped the learning management system with video tutorials to teach non-English speaking employees operational processes, increasing scheduling flexibility and machine uptime

MTU Aero Engines

Munich, Germany

Mechatronics Student Intern

August 2022

- Learned professional engineering workflows and practices around industrial lathes, drills, and CNCs
- Engaged with sustainability initiatives within the workplace and the company's goal of "zero waste aviation"

SKILLS & INTERESTS

Computer Skills: Python, Java & Kotlin; Javascript, HTML & CSS; MySQL, PostgreSQL & R

Frameworks & Tools: React.js, Node.js & Expo; Git, Google Cloud, BigQuery, Jira, Miro, Figma & Vercel

Language Skills: Native English & German; Working French; Basic Danish Proficiency

Interests: Web Applications; Machine Learning & AI; Data Analytics; UI/UX Design; Investing; Sustainability