Brian Lee

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EXPERIENCE

Software Engineer
Tesla   **August 2023 - April 2024, Palo Alto, CA, USA**
- Developed 3D Track Configurator, a visual interface for controlling AGV robots; currently being used **in production** at Tesla.
- Achieved autonomous **navigation** with NAV2 and high-precision **localization** using NVIDIA Isaac ROS SLAM (**0.94%** translation error, **0.0019 deg/m** rotational error). Delivered working demo to Tesla's director of factory design.
- **Technologies**: TypeScript, React, Antd, Three.js, Zustand, Golang, MySQL, Webots, Docker, Kubernetes, Github Actions, ROS, SLAM.

Co-Founder | CTO
Paymo   **May 2023 - September 2023, Atlanta, GA, USA**
- **Co-founded** a startup and attracted investment of **$100,000** valuation from Bullmont Capital within **4 months** of launch.
- Developed a web app to simplify payment collection process for businesses and freelancers; served **100+ users.**
- **Technologies**: Next.js, TypeScript, Prisma, PostgreSQL, Shadcn UI, Tailwind CSS, Stripe API, Venmo API.

Co-Founder | CTO
Astro   **May 2023 - September 2023, Atlanta, GA, USA**
- **Co-founded** web agency, delivered **15+** SEO optimized websites for businesses, boosting online visibility by **25%**.
- **Technologies**: HTML, CSS, Javascript, React, Figma, Shopify API.

Software Engineer, Intern
MerchantE   **May 2023 - August 2023, Alpharetta, GA, USA**
- Wrote tests for Java/Spring application using JUnit and Mockito, increasing test coverage to **85%**; automated test runs using Jenkins.
- **Technologies**: Java, Spring, JUnit, Mockito, Jenkins CI/CD, Postman.

Software Engineer, Intern
NCR   **May 2022 - August 2022, Atlanta, GA, USA**
- Developed API monitoring service using NestJS, detecting data flow bottlenecks in GCP PubSub and sending alerts to Flutter mobile app.
- **Technologies**: Node.js, NestJS, Flutter, Google Cloud, Kubernetes, Helm.

Software Engineer, Intern
Samsung   **May 2021 - August 2021, Suwon, South Korea**
- Developed a dashboard to track and visualize Bixby API usage, analyzing user behavior patterns.
- **Technologies**: React, D3.js, Bootstrap CSS, Spring, Java.

PROJECTS

UWB Indoor Drone Localization
- Developed a cost-effective indoor drone localization method using UWB and 9 DoF IMU; achieved **+-15cm accuracy** with 8 UWB anchors.
- **Technologies**: C/C++, Arduino, UWB, IMU, MATLAB.

GT Oscar Band Ticketing App
- Developed a commission-free concert ticketing platform; served **300+ students** and facilitated transactions of more than **$2000**.
- **Technologies**: TypeScript, Next.js, Tailwind CSS, MongoDB, Venmo API, Python, Flask, Vercel.

Please!
- **Led a team of 4** engineers during hackathon to create a mobile app that connects neighbors for help; delivered MVP within **48** hours.
- **Technologies**: React Native, Python, Flask, MongoDB, Venmo API, Adobe XD.

EDUCATION

Computer Science (Machine Learning) Masters
Georgia Institute of Technology · Atlanta, GA, USA · August 2022 - May 2024 · 3.8
- **Coursework**: NLP, Data & Visual Analytics, Project Management, Game AI, Deep Learning

Computer Science Bachelors
Georgia Institute of Technology · Atlanta, GA, USA · August 2018 - May 2022 · 3.8
- **Coursework**: Algorithms Honors, Data Structures, Machine Learning, Systems & Networks

SKILLS & INTERESTS

Frontend & Mobile: React, React Native, Typescript, Javascript, HTML/CSS, Flutter, NextJS, Zustand, Jest, D3.js, Three.js

Backend & AI/ML: Java, Python, Node.js, Golang, SQL, NoSQL, Linux, AWS, GCP, Docker, GraphQL, Flask, Spring, PyTorch, TensorFlow, NumPy, OpenCV.