

J. Daniel Luper

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Education

Baylor University

B.S. IN COMPUTER SCIENCE, MINOR IN MATHEMATICS

Waco, TX

Aug 2020 - May 2024

- GPA: 3.97
- Baylor Interdisciplinary Core: Honors program focused on small group discussion and reading primary texts
- Courses: NLP (Audited), Data Mining, Numerical Analysis, Networking, Databases, Data Structures & Algorithms

Experience

Amazon

SOFTWARE DEVELOPMENT ENGINEER INTERN

Denver, CO

May 2023 - Aug 2023

- Improved an internal tool to reliably and efficiently expand amazon.com warranties worldwide (14+ countries)
- Found and fixed a non-deterministic bug that nearly caused over 10,000 incorrect product/warranty mappings
- Adapted to changing priorities by incorporating user and developer feedback into the service's implementation

Spring Solutions

FULL STACK DEVELOPER INTERN

Remote

May 2022 - Oct 2022

- Led the development from inception to release of a client-facing website for law firms to access the startup's services
- Optimized the codebase for scalability, reducing the main repo by 45k lines and enabling +44% clients/developer
- Designed REST APIs and databases while working closely with the CEO and the co-founder to ensure project quality

Spring Solutions

SOFTWARE DEVELOPER INTERN

Remote

May 2021 - Aug 2021

- Automated 15 essential tasks for law firms via serverless computing, resulting in 850+ emails delivered to clients
- Accelerated the development lifecycle by building an internal tool that resulted in 6x less dependency issues
- Modified existing software to reduce troubleshooting time by 70% and improve fault tolerance for AWS Lambdas

Baylor Neuromorphic & Robotic Systems Lab

UNDERGRADUATE RESEARCH ASSISTANT

Waco, TX

Feb 2021 - Aug 2021

- Developed code to interface robot camera data with a stochastic artificial neural network based on [this publication](#)
- Prototyped an autonomous lighter-than-air (LTA) aircraft, driving a 150% increase in project size and funding

Projects

Revisto

revisto.net

- Formed and led a student programming group ([CS Journeys](#)) to build a public and anonymous journaling website
- Delegated tasks and created the vision for a healthier social media platform, resulting in over 50 user journal entries
- Deployed to an AWS EC2 server configured with NGINX and set up a CI/CD pipeline to facilitate rapid development

Self-Driving Picar

github.com/./self-driving-picar

- Engineered a miniature self-driving car from hand-selected components on a sub-\$100 project budget
- Achieved the ability for the car to drive itself on roads traced with two lines of black duct tape on a white surface
- Trained a deep learning TensorFlow AI on 20,000 images collected and labelled using custom data processing scripts

Hands-Free Chess

github.com/./hands-free-chess

- Led team of students to create a voice-controlled tool for playing chess online without using a keyboard and mouse
- Implemented the most complex section — the image recognition algorithm — and taught Python to teammates

Skills

HARD Java · C++ · JavaScript · Python · SQL · NoSQL · Scripting · Linux · Node.js · Spring Boot · React · OOP · Agile
AWS · Cloud Computing · Docker · CI/CD · IaC · Testing · Postman · Documentation · Git · MATLAB

SOFT Collaboration · Initiative · Open-Mindedness · Curiosity · Project Management · Leadership · Creativity

LANG. English (native) · French (fluent) · Spanish (conversational) · Arabic (beginner)

Awards

- Earned 1st place in Baylor's Wacode hackathon with [Nocrastinate](#), a time management web app for students
- Recognized on the [Dean's Academic Honor List](#) every semester at Baylor University for outstanding academic work