B. Jack Crew

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EDUCATION

University of Florida — Gainesville, FL
Bachelor of Science in Computer Science. 3.84 GPA. Dean's List all semesters — *2021 – 2025*

Relevant Coursework - Data Structures & Algorithms, Operating Systems, Machine Learning Engineering, Natural Language Processing, Information and Database Systems, Engineering Statistics

University of Edinburgh — Edinburgh, UK
Relevant Coursework - Computational Cognitive Science, Introductory Astrophysics — *2022 – 2023*

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, C++, Java, SQL, HTML, CSS, Solidity
Frameworks & Libraries: Node.js, React, Next.js, Express, Tailwind CSS, PyTorch, Scikit-learn
Data Management: PostgreSQL, MySQL/MariaDB, MongoDB, Prisma, Drizzle
Testing & Dev Tools: Mocha, Jest, JWT, Git, Docker, Linux

EXPERIENCE

Private Equity Summer Analyst — June 2024 – August 2024
Lotus Infrastructure Partners — *Greenwich, CT*

- Spearheaded a successful bid for a $1B solar and storage portfolio by developing a comprehensive valuation model and presenting the report to the investment committee
- Leveraged S&P Capital IQ's API to automate analytics of hourly power price data from markets relevant to a portfolio of managed energy assets, increasing data granularity and reducing reporting latency by over 70%

Business Development Intern — June 2022 – Aug. 2022
TaskUs, AI Services — *Remote*

- Increased number of monthly meetings scheduled by 10% through management of a top-of-funnel lead generation email campaign and continuous iteration of the campaign's content and strategy
- Authored a report utilizing internal Salesforce data to evaluate the effectiveness of several intelligence tools and outreach timelines, leading to a revised strategy that improved the next quarter's lead generation efficiency by 12%

PROJECTS

Leornian | *TypeScript, React, Node.js, Express, PostgreSQL, Prisma* — June 2025

- Developed a full-stack web app and chatbot for tracking health and habit data, using a React front-end served by a Node.js/Express REST API with data stored in a Prisma-managed PostgreSQL database
- Engineered a custom JSON query intent object, system prompt, and validation pipeline to safely convert user queries into SQL, resulting in a 100% elimination of SQL injection vulnerabilities vs. a direct text-to-SQL model
- Constructed a modular prompt engineering architecture separating SQL generation from response formatting, achieving 95% more accurate intent parsing and 40% faster response generation

Image Classification CNN | *Python, PyTorch, Scikit-learn* — April 2025

- Built a custom convolutional neural network in PyTorch for classifying images into 12 discrete categories
- Developed a data augmentation pipeline with randomized transformations to quadruple the dataset size, resulting in a 15% increase in model generalization accuracy
- Accelerated model training more than 10× by parallelizing compute workloads on UF's HiPerGator supercomputer

ChessBase | *Solidity, Typescript, Node.js, PostgreSQL, Drizzle* — September 2025

- Developed a Node.js API that interfaces with a smart contract on the Base blockchain testnet to enable peer-to-peer chess matches with automated USDC wager handling and settlement
- Engineered multi-state escrow smart contract with automated settlement logic, achieving 100% successful fund transfers across Mocha unit test suite covering wins, draws, cancellations, and emergency withdrawals
- Architected a cross-platform TypeScript SDK, allowing any frontend framework to compose functionality through modular plugins for authentication, blockchain wallet integration, and UI state management