David Benjamin

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EDUCATION

Johns Hopkins University

Baltimore, MD

 $B.S.\ in\ Computer\ Science\ |\ Minor\ in\ Entrepreneurship\ \&\ Management\ |\ GPA:\ 3.92$

Expected May 2027

Relevant Coursework: Artificial Intelligence, Data Structures, Algorithms, Software System Design, Full Stack Development, Computer System Fundamentals, Programming in C/C++ on Linux, Professional Writing and Communication

SKILLS & INTERESTS

Programming Languages: Python, JavaScript, TypeScript, Java, C, C++, SQL, Bash

Frameworks & Tools: Docker, Git, GitHub, React, Next.js, Node.js, HTML, CSS, Pandas, NumPy, scikit-learn

Cloud & DevOps: AWS, Linux/UNIX, CI/CD (GitHub Actions), Agile, Testing (Unit, Integration, System, TDD), API Design Interests & Activities: Pava Accelerator, Software Engineering Club, Phi Gamma Delta Fraternity, Golf, Lacrosse, Skiing

EXPERIENCE

NASA - National Aeronautics and Space Administration

May 2025 - Present

Software Engineer Intern

Greenbelt, MD

- Accelerated review cycles for 500+ telescope proposals from 7-days to under 1 hour by building an AI-powered reviewer assignment system with constraint programming (Google OR-Tools, Django), enforcing 20+ optimization constraints.
- Eliminated 100% of scheduling system failures by implementing Celery + Redis async architecture, enabling uninterrupted processing of multi-hour optimization workflows for mission-critical telescope proposal reviews.
- Built conflict-detection algorithms (RapidFuzz, Astropy) solving name disambiguation and coordinate matching challenges, ensuring bias-free reviewer assignments across \$8 million in annual telescope funding decisions.

Meta – Major League Hacking Fellowship

June 2025 – September 2025

Site Reliability Engineering Fellow

Remote

- One of less than 2.5% accepted into Meta and MLH's 12-week Site Reliability Engineering fellowship, collaborating with Meta Production Engineers to design reliable, scalable, production-ready systems.
- Deployed production-grade portfolio website on Linux (DigitalOcean VPS) using Nginx reverse proxy, Docker
 containerization, and MySQL database; gained proficiency with Linux system administration and core networking concepts
 (HTTP, DNS, TCP/IP).
- Built CI/CD pipelines with GitHub Actions and implemented Prometheus/Grafana monitoring for real-time metrics, alerting, and incident response, enhancing performance troubleshooting, observability, and incident management skills.

Johns Hopkins Sports Analytics Research Group

May 2024 - May 2025

 $Lead\ Software\ Engineer$

Baltimore, MD

- Directed a **9-person team** to deliver the Atlantic League of Professional Baseball's **first league-wide analytics platform**, providing MLB-caliber data access and tool sharing that modernized team operations.
- Engineered and deployed an ETL pipeline (Pandas, AWS Lambda, Docker) and RESTful API (PostgreSQL, API Gateway) that democratizes 60K+ Trackman datapoints per game; now powering 20+ developers building 5+ analytical tools.
- Launched a full-stack web app (Next.js, TypeScript, Express.js, Tailwind CSS) centralizing analytics tools; adopted by 100+ coaches, analysts, and staff for data-driven decision-making.

HopHacks

 $December\ 2024-Present$

 $Organizer\ (Website\ Team)$

Baltimore, MD

- Engineered a GitHub Actions—based CI/CD pipeline that fully automated website deployment, eliminating 100% of manual EC2 deployment steps and achieving zero-downtime releases through rsync + build promotion.
- Developed core full-stack features (React, Flask, MongoDB, S3) supporting 500+ hackers and judges, collaborating across 5 functional teams with Agile workflows to enhance registration, judging, and overall event experience.

PROJECTS & HACKATHONS

ColdMap

• Built an AI-driven Palantir AIP dashboard integrating **LLMs** (GPT-40), **Polars**, and **scikit-learn** to analyze cryogenic shipment data, predict risks, and generate explainable insights for cell therapy cold chain logistics.

Alibaba Global E-Commerce Challenge (2nd / 500+ Global Teams)

- Built LEAP, an AR "view in your room" shopping app (React, Tailwind CSS, Google model-viewer), designed to integrate with Lazada and boost sales in developing markets by increasing purchase confidence.
- Place 2nd out of 500+ global teams; pitched live at Alibaba HQ to 70+ engineers and executives, including C-suite leaders.

Brody Bot

Automated 200+ hours of study room reservations for 20+ students at Johns Hopkins by developing a configurable
 Python + Selenium bot, bypassing booking limits with multiprocessing and coordinating concurrent bots with SQLite.