

Samuel Jensen

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SUMMARY

Computer Science Junior with a strong foundation in full-stack development, data structures, and database systems. Experienced in Python, React, TypeScript, PostgreSQL, and REST API design, with growing specialization in data analysis and AI-powered applications. **Actively seeking Summer or Fall 2025 internships** in data science, machine learning, or software development, or other Computer Science related fields.

EDUCATION

B.S. Computer Science

Expected May 2026

Minor - Data Science

Arizona State University, Tempe, AZ

3.5 Major GPA

Technical Skills and Certifications

Programming Languages: Java, JavaScript, Python, C/C++, Typescript, SQL and MySQL

Front-End: HTML, CSS, SCSS, React, Bootstrap

Back-End & APIs: Flask, Node.js, Express.js, REST API Design, JWT Authentication, Third-Party API Integration

Machine Learning & Data: Neural Networks, Time-Series Analysis, Model Training & Inference, Predictive Analytics, Data Aggregation, Feature Engineering, MatLab

Cloud & DevOps: AWS (Elastic Beanstalk, EC2, RDS, CloudFormation, CloudWatch, Load Balancer, Auto Scaling), Railway (PostgreSQL), Scheduled Background Workers, Real-Time Systems, Microservice Architecture, Cross-Server Communication

Databases: PostgreSQL, MongoDB

Tools & Version Control: Git, GitHub

Operating Systems: Windows, MacOS, Linux/Unix (Linux CLI and Unix Shell)

AWS Developer Certification - Associate

March 2025

HackerRank Software Engineer Intern Certification

April 2025

RELEVANT PROJECTS

Tesla Smart Energy Dashboard – ML & API Automation Project

Spring 2025

Core skills: Machine Learning (Neural Network) · REST API Design · Cloud Infrastructure · Automation · Data Analysis · Real-Time Systems

- **Built neural network model** to classify and forecast drive, charge, and idle events from Tesla vehicle telemetry.
- **Designed predictive analytics engine** for battery usage and range forecasting and prediction using historical time-series data.
- **Engineered RESTful API** in Flask to expose live vehicle data to AWS-hosted dashboard for real-time updates.
- **Automated data ingestion pipeline** from Tesla Fleet API using cloud microservices (EC2), enabling 24/7 telemetry logging.
- **Deployed cloud-native architecture** with API-first design, ML inference endpoints, and PostgreSQL-backed model training.

Genotype Classification Algorithm – Data Structures & Algorithm Optimization Project

Spring 2025

Core skills: Python · Data Structures · Algorithm Design · Hash Maps · Optimization · Edge Case Handling

- **Developed genetic classification logic** to label samples as “Normal” or “Mutant” and detect inconsistencies and ambiguities.
- **Used hash maps and sets** for efficient state tracking and deduplication across test case evaluations.
- **Structured modular functions** to isolate parsing, classification, and contradiction resolution logic.
- **Optimized runtime to $O(n * m)$** by reducing nested lookups and improving iteration patterns.
- **Refined edge-case logic** to ensure correctness and consistency across all provided test inputs.

Task Management App – Full-Stack Development Project,

Spring 2025

Core skills: React · TypeScript · Node.js · Express.js · PostgreSQL · JWT Authentication · REST API

- **Built full-stack app** using React (TypeScript), Node.js (Express), and PostgreSQL for task CRUD and user auth.
- **Implemented JWT authentication** with bcrypt-hashed passwords for secure login and task operations.
- **Designed RESTful API endpoints** for account creation, login, task creation, update, and deletion.
- **Configured PostgreSQL schema** for user-task relationships with access control enforcement.

Personal Portfolio Website (www.samuel-jensen.com) – Full-Stack Web App on AWS

Spring 2025 - Present

Core skills: Flask · AWS (Elastic Beanstalk, RDS) · PostgreSQL · MongoDB · Web Analytics · SCSS · Bootstrap

- **Hosted portfolio on AWS** via Flask + Elastic Beanstalk to showcase software projects and analytics tools.
- **Embedded live algorithm demo** for genotype classification using a custom input UI.
- **Connected cloud databases** (PostgreSQL via RDS and MongoDB Atlas) for structured and unstructured data.
- **Secured and modularized backend** using Flask Blueprints and environment variables for deployment.
- **Styled frontend with SCSS and Bootstrap** for mobile responsiveness and animated UI components.

WORK EXPERIENCE

Starbucks, Scottsdale, AZ: Shift Lead

March 2019 - Present

Led a team of 15–17 baristas to deliver exceptional service to 180–200 customers per hour. Balanced working 30 hours per week while pursuing academic goals, showcasing strong time management and multitasking skills. Voted **Barista of the Quarter** by my peers.