

Otis Ward, IV

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EDUCATION

Stanford University

Stanford, CA

B.S. in Design, AI & Digital User Experience | Minor in Computer Science

Expected 6/2027

Relevant Coursework: Human Values in Design, Visual Thinking, Computer Graphics & Imaging, Mechanical Physics, Programming Abstractions, Computer Organization and Systems, Probability for Computer Scientists, Linear Algebra & Multivariable Calculus

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript, TypeScript, HTML/CSS, SQL

Software: Figma, Git/GitHub, Next.js, PostgreSQL, Firebase, React, Prisma, Visual Studio, REST API's, Claude Code, Cursor

WORK EXPERIENCE

Pacific Gas & Electric Company (PG&E)

Oakland, CA

Process Intelligence Intern

6/2026 – 9/2026

- Designed and developed an interactive Flask-based AI decision-support dashboard translating Bayesian Network outputs across 34 nodes into actionable outage risk scenarios and intervention recommendations
- Applied Python, Bayesian inference, causal analysis, and operational process data to surface high-risk conditions, rank intervention impacts, and support data-informed workflow decisions.

Pacific Gas & Electric Company (PG&E)

Oakland, CA

Full-Stack Developer Intern

6/2025 – 9/2025

- Contributed to Sherlock 2.0 scheduling engine using JavaScript, Prisma ORM, and PostgreSQL for electric distribution operations
- Designed and implemented a division hold management feature, developing REST APIs, database models, and scheduling logic to support operational workflows

Pacific Gas & Electric Company (PG&E)

Oakland, CA

Software Development Intern

6/2024 – 9/2024

- Designed and executed an Email-to-Case workflow supporting internal intake and triage for Salesforce COE team
- Collaborated with administrators and stakeholders to refine requirements and document workflows

PROJECTS

PG&E Bayesian Network Risk Dashboard | Python

- Built a Flask-based decision-support dashboard around a 34-node Bayesian Network to evaluate outage risk across observational and casual scenarios
- Implemented Bayesian inference and do-calculus analysis to surface high-risk conditions, rank intervention impacts, and translate model outputs into actionable risk insights

PG&E Sherlock 2.0 Scheduling Engine | JavaScript, TypeScript, Next.js

- Built a Division Hold Management tool to pause inspection scheduling across PG&E's 5 regions (20 divisions)
- Implemented backend services and an interface to reduce scheduling conflicts by excluding held divisions

BetterEd | React, TypeScript, Next.js, Firebase

- Built a full-stack student collaboration platform for real-time study sessions, course discussions, and peer discovery
- Implemented Firebase authentication, Firestore-backed social features, and admin analytics for users activity, content moderation, and platform engagement

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Alpha Phi Alpha Fraternity, Inc.

Stanford, CA

Chapter President

12/2024 – Present

- Plan and execute over 10 annual initiatives on and off campus, including free haircuts, professional development workshops, college exposure, voter awareness campaigns, community performances, social events, and more

National Society of Black Engineers

Stanford, CA

Member

2/2025 – Present

- Supported planning and execution of professional development events and coordinated travel for Black engineering students to national conferences such as NSBE Annual Convention and Afrotech

