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Danton Dang

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Education

Ames, IA	Iowa State University	Expected Graduation: May 2027
Bachelor's in Software Engineering		GWC Scholar (Full-Ride), **GPA: 4.00**

Relevant Coursework: Algorithms & Data Structures, Website Development, Embedded Systems, Discrete Mathematics, Digital Logic, Object Oriented Programming

Employment

Software Engineering Intern	**Principal Financial Group**	**May 2025 - August 2025**
(Site Reliability Engineering)		

- Migrated 100+ AWS resources across regions by modifying **Infrastructure as Code (IaC)** and deploying updated **CloudFormation stacks** via **AWS CDK**, ensuring compliance with Principal's regional standards
- Automated label synchronization between **Nobl9** projects and **ServiceNow** through a daily **AWS Lambda CRON job**, eliminating a manual process and improving accuracy
- Upgraded 300+ AWS Lambdas across 10+ accounts by updating IaC and CDK deployments, validating functionality through testing and Lambda layer adjustments, to avoid deprecated runtimes

Part-Time Software Engineer	**John Deere Financial**	**May 2024 - Present**

- Collaborated to develop a Security Access Management application that is used by 470+ managers worldwide, saving over **$18,000** every year in labor and manual overhead.
- Developed an internal tool for the Database Management team to automate **JIRA** ticket creation, manage **AWS EC2** lifecycle events, and display tables, improving request handling efficiency.
- Optimized employee data integrity by automating the correction of invalid employee IDs in a 2000+ record database, accurately updating over **100+ entries,** and reducing manual cleanup efforts.
- Engineered a **Node.js** and **TypeScript** CRON job using **Prisma ORM** and Deere's **HR API** to automatically delete/update terminated employee records, ensuring up-to-date records in production.
- Authored API documentation for adhering to internal API standards (SALAD), detailing secure API Gateway integration and best practices for protecting **AWS Lambda** functions.

Projects

Dancer - YouTube Dance Tool Chrome Extension	**July 2025**

- Developed a Chrome extension using **JavaScript** and **DOM APIs** to enhance YouTube with video mirroring, looping, countdowns, and a beat-synced metronome
- Implemented persistent per-video configurations by storing and retrieving data via chrome.storage.local

NCT 127 - NASA Patent Tracker and Library	**April 2025**

- Developed a full-stack web application enabling users to search, save, and annotate NASA patents using the **NASA TechTransfer API**, targeting educational and research use cases.
- Implemented user authentication, profile management, and patent saving with notes, tags, and links.
- Created **RESTful backend API** using **Node.js and Express**, handling all CRUD operations for user data and patents; integrated with **MongoDB** for persistent data storage.

John Deere CSA Class Co-op - Crop Harvest Time Predictor	**January 2022- May 2022**

- Utilized **Google Firebase** to authenticate users and store user information in **Realtime Database.**
- Built UI/UX by interviewing users, designing in Figma, and developing front-end in **Android Studio**

Skills

Languages: TypeScript, Java, Python, JavaScript, C, HTML, CSS, Verilog

Technologies/Frameworks: AWS, Next.js, React, Node.js, Jenkins, MongoDB, Firebase, Express, PostgreSQL

Software and Tools: Git, GitHub, JIRA, Nobl9, ServiceNow, Bruno, VS Code, Android Studio