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# Daniel “Ludo” DeAnda

Full-Stack Software Engineer & Educator

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## Education

The University of Texas at Dallas (August 2019 - May 2023)

**Bachelor of Science in Computer Science, *summa cum laude*** (Overall GPA: 3.99)

Graduated with major honors (CS<sup>2</sup>) and university honors (Collegium V)

## Expertise

**Front End:** React, Next.js, TypeScript, JavaScript, CSS, HTML, jQuery, VS Code, WebStorm

**Back End:** Java, Kotlin, Node.js, Python, C++, C, IntelliJ IDEA, PyCharm, CLion, Eclipse, APIs, REST

**Database:** SQL (MySQL and PostgreSQL), DataGrip, CSV, Markdown, MDX, UML, Microsoft Visio

**Development:** Git, GitHub, Jira, Figma, Package Management, Problem Solving, Debugging, Testing

**Infrastructure:** Terminal (Bash), Vim, Nano, SSH, Amazon Web Services, Vercel, Fly.io

**Documentation:** Notion, Confluence, Microsoft 365, Google Workspace, JSDoc, Javadoc, LaTeX

**Interpersonal:** Teaching, Mentorship, Pair Programming, Communication, Slack, Discord

## Experience

Software Development Educator, CodeDay (October 2023 - Present)

- Help college students develop and submit contributions for open-source programming projects
- Resolve issues students encounter during development environment setup and provisioning
- Identify bugs and solve novel problems students encounter in any programming language
- Teach programming concepts relevant to students' projects at varying levels of complexity
- Guide students through Git/GitHub workflows and assist with the associated technical writing
- `export KEYSKILLS="$KEYSKILLS:Mentorship:Debugging:Terminal:Git:GitHub:VS-Code"`

Lead Front-End Engineer, Nebula Platform (January 2023 - May 2023)

- Designed and developed the front end of an account and identity access management system for the UTD student organization Nebula Labs alongside a small team of senior executives
- Researched and performed cost analysis for a single sign-on (SSO) solution for the system
- Collaboratively created supporting documents such as a project proposal and final report
- `const keySkills = ['Next.js', 'TypeScript', 'Package Management', 'Figma', 'GitHub', 'Documentation', 'Communication'];`

Software Engineering Intern, Cvent, Inc. (June 2022 - August 2022)

- Constructed RESTful API endpoints in Java that store and retrieve complex user data
- Inspected and manipulated a PostgreSQL database using both DataGrip and SQL queries
- Wrote unit tests, integration tests, and automation tests using Jest, Karate, and Cucumber
- Performed CI/CD deployments using Jenkins and smoke tests using Postman
- Contributed to design and debugging efforts by pair programming with employees
- Investigated potential causes of integration test timeouts and reported findings
- Corrected and authored new internal documentation for development environments
- `const keySkills = ['Java', 'React', 'PostgreSQL', 'Jira', 'Communication'];`

### Software Engineer Intern, Onfleet, Inc. (May 2021 - August 2021)

- Resolved an existing issue with the admin dashboard in a dedicated Git branch
- Used callback functions and hooks to remake a delivery and pick-up tracking page in React
- Created robust test suites using Jest and the React Testing Library
- Learned how to use NPM packages such as styled-components and grommet
- `const keySkills = ['React', 'Git', 'GitHub', 'Terminal', 'SSH', 'Slack'];`

### Researcher, UTD Student Network Study (May 2020 - September 2020)

- Developed an efficient Python program to identify, manipulate, and observe changes in the properties of a university student network using graph theory
- Collaborated with six other honors students and worked under an honors professor
- Used numpy, pandas, and matplotlib to facilitate computations and visualize results
- Co-authored an academic paper listing the team's findings and recommendations
- `key_skills = {"Python", "Debugging", "Terminal", "SSH", "Git", "LaTeX"}`

## Featured Coursework

### Artificial Intelligence and Machine Learning (CS 4365 Honors & CS 4375) (Spring 2022)

- Described and evaluated uninformed search problems, informed search problems, constraint satisfaction problems, propositional knowledge bases, Bayes networks, and games
- Mastered fundamental principles such as regression, multilayer perceptrons, convolutional neural networks, gradient descent, backpropagation, support vector machines, clustering methods, dimension reduction, and reinforcement learning
- Created artificially intelligent Pac-Man agents in Python for a course-wide competition
- Implemented several multilayer perceptrons and used them to perform image classification
- `key_skills = {"AI/ML", "Problem Solving", "Python", "PyCharm"}`

### Database Systems (CS 4347) (Fall 2021)

- Produced and normalized relational database schemas from entity relationship diagrams, identifying primary keys, foreign keys, and functional dependencies
- Used SQL statements to create a relational database from scratch and modify its contents using Oracle Database 19c and SQL Developer
- Wrote SQL queries to retrieve information from and about relational databases
- `select * from KEY_SKILLS where Skill in ('MySQL', 'UML', 'Microsoft Visio');`

## Honors and Certifications

AWS Cloud Solutions Architect Specialization, Coursera (certification from AWS itself pending)

**National Merit Scholar**, The National Merit Scholarship Corporation

Valedictorian, Homestead High School, Cupertino, CA

**Seal of Biliteracy in Spanish**, Homestead High School, Cupertino, CA

Six-Time Award Recipient, CodeDay (Best in Show, Best Game, Special Awards for Design)

## Activities and Projects

### Social Co-Chair, Novis A Cappella (March 2020 - December 2022)

- Organized and ran various social events, maintained the organization's Reddit account and Discord server, and designed and regularly updated its website
- Key Skills: Leadership, Communication, Mentorship, HTML, CSS, JavaScript, and jQuery

### Various Projects (9 Years of Software Development)

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