Daniel (Ludo) DeAnda

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Objective

Seeking a position as a front-end or full-stack software developer/engineer at a software-as-a-service company starting in the summer of 2023.

Education

B.S. in Computer Science, GPA: 3.99
The University of Texas at Dallas (UTD), Expected May 2023
Honors College and CS^2 Honors Program Member

Technical Skills

Languages and Packages:	React, Next.js, TypeScript, HTML/CSS/JS, jQuery, NPM/PNPM/Yarn, Java, Python 3, C/C++, SQL, CMD/Terminal/Bash (including SSH)
Application and System Software:	JetBrains IDEs, Visual Studio, VS Code, Eclipse, Postman, Postgres, Vim, Git/GitHub, Slack, Microsoft 365, G Suite, All Major OSs
Other:	Strong Verbal and Written Communication Skills California Seal of Biliteracy in Spanish

Experience

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

- Constructed RESTful API endpoints in Java to facilitate the storage (POST) and retrieval (GET) of complex user data, validating that data in the process
- Wrote unit tests, integration tests, 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 skillsHoned = new Set(['Java', 'JetBrains IDEs', 'React', 'Yarn'
                               'TypeScript', 'Slack', 'Communication']);
  ```

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

- Resolved an existing issue with the admin dashboard in a dedicated Git branch
- Remade the organization's delivery/pick-up tracking page in React, making use of callback functions and various hooks, including `useState` and `useEffect`
- Created robust test suites using Jest and the React Testing Library
- Used NPM to install packages used in development, including `styled-components`
- ```
  const skillsHoned = new Set(['React', 'VS Code', 'NPM', 'Git/GitHub',
                               'UNIX Servers via SSH', 'Slack']);
  ```

Researcher, UTD Student Network Study (May – September 2020)

- Developed an efficient Python program to identify, manipulate, and observe changes in the properties of a university student network using graph theory, in collaboration with six other CS^2 students, and under the direction of Dr. Ravi Prakash
- Used NumPy, Pandas, and Matplotlib to facilitate computations and visualize results
- Co-authored an academic paper listing the team's findings and recommendations
- `skills_honed = {"Python", "JetBrains IDEs", "Git/GitHub", "UNIX/SSH"}`

Coursework

Advanced Algorithm Design and Analysis

- Analyzed the temporal and spatial complexities of sorting, divide-and-conquer, dynamic programming, greedy, and graph algorithms
- Developed and proved the correctness of new algorithms to solve novel problems
- Applied knowledge of data structures to minimize temporal and spatial complexities
- `Set<String> skillsHoned = Set.of("Pseudocode", "Problem Solving");`

Operating Systems Concepts

- Wrote C/C++ and Java programs to send and receive data between processes and remote UNIX machines using threads, pipes, and sockets
- Expressed and evaluated various approaches for shared data access, process syncing, CPU scheduling, deadlock detection and prevention, data storage, and I/O
- `std::set<std::string> skillsHoned = {"C/C++", "Java", "Vim", "UNIX", "UNIX Servers via SSH"};`

Database Systems

- Produced and normalized relational database schemas from entity relationship (ER) 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 SKILLS_HONED where Skill in ('SQL', 'SQL Developer');`

Honors

National Merit Scholar, The National Merit Scholarship Corporation
Valedictorian, Homestead High School, Cupertino, CA
Nominee, National Society of Collegiate Scholars & Golden Key International Honor Society
Six-Time Award Recipient, CodeDay (Best Game, Best in Show, Special Awards for Design)

Activities

Social Co-Chair, Novis A Cappella (2020 – 2022)

- Organized and ran various social events, maintained the organization's Reddit account and Discord server, and designed and regularly updated its website
- `Skills Honed: HTML/CSS, Git/GitHub, Communication, and Leadership`

Regular Attendee and Volunteer, CodeDay (Hackathon) (2015 – 2019)

- Developed games and apps (one/event) with teams of fellow students in 24 hours
- `skills_honed = {"Python", "HTML/CSS/JS", "Java", "JetBrains IDEs", Git/GitHub"}`