James Donckels

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EDUCATION

University of California, Irvine   *Expected: June 2026*

Bachelor of Science, Software Engineering

Dean's Honor List, GPA 4.00 / 4.00

Pasadena City College   *June 2024*

Associate in Science-Transfer, Mathematics

Associate in Science-Transfer, Physics

Associate in Science, Natural Sciences

Associate in Arts, Engineering and Technology

Dean's Honors, GPA 4.00 / 4.00

PROJECTS

SQL Database   *February 2024 - June 2024*

Written in C++

- Implemented 10+ data structures from scratch including Linked Lists, Graphs, and Trees.
- Built a parser to process SQL-style queries like SELECT, INSERT INTO, and MAKE TABLE.
- Utilized algorithms including Binary Search, Shunting Yard, and tree traversal.

Voting System User Interface   *December 2024*

Written in Java

- Constructed a voting system GUI for electing candidates and voting for propositions.
- Implemented various Java Swing components including dialogs, buttons, checkboxes, and text areas to create an interactive and responsive experience.

WORK EXPERIENCE

Pasadena City College   *February 2023 - June 2024*

Calculus Tutor

- Supported 100+ students learning single and multi variable Calculus by answering questions and explaining concepts.
- Led 5+ workshops and created 100+ practice problems to supplement student learning.

LEADERSHIP EXPERIENCE

Eagle Scout   *March 2022*

- Achieved the highest rank in Boy Scouts, something only accomplished by 6% of all scouts who join.
- Served for 3+ years in leadership positions in the troop including Patrol Leader and Chaplain Aide.
- Earned 21+ merit badges in disciplines including Personal Management, Communication, First Aid, Citizenship in the Community, and more.

Eagle Scout Service Project   *November 2021 - February 2022*

- Constructed 5 6-feet tall by 4-feet wide shelving units from scratch to store 100+ pounds of hockey and skating equipment.
- Raised over $1,000 in funding to purchase materials and offset costs.
- Led a team of 10+ people through the construction, painting, delivery, and installation of the shelving units to local ice station.

Programming Languages and Technologies

C++, Java, Python, R, HTML, CSS, Javascript, Typescript, MIPS Assembly, Google Workspace, Microsoft Office, JetBrains Developer Tools, VS Code, Eclipse, Git, GitHub, MacOS, Windows.