Eduardo Chavez

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EDUCATION

Bachelor of Science, Computer Science September 2016 – June 2019
University of California, Santa Cruz
*Overall GPA: 3.16

Associate of Science, Mathematics, Physics and Pre-Engineering February 2011 – June 2016
El Camino College, Torrance, California
Dean's List: Fall 2013, Fall 2014, Spring 2015, Fall 2015

COMPUTER SKILLS

Operating Systems:	UNIX, Microsoft, macOS
Languages:	C, C++, Python, Java, PostgreSQL, MIPS
Tools/IDE:	Git, Github, Visual Studio 2015, VS Code, NetBeans

EXPERIENCE

MESA (Mathematics, Engineering, Science Achievement) Program Specialist October 2018 – Present
El Camino College, Torrance, California
• Improve and automate database updates to ensure integrity of data for future state reports
• Perform fact-gathering assignments to inform students of scholarship, research, and work opportunities

MESA Computer Science Tutor October 2018 – March 2019
El Camino College, Torrance, California
• Reinforced students' understanding of computer science fundamentals, data structures, and object-oriented design
• Assisted students with finding efficient ways to solve programming assignments and generate code

Research Intern, TSSRP (Transfer Student Summer Research Program) June 2015 – August 2015
University of California, Los Angeles
• Developed applications in C++ to analyze the impact of several image formats on flash storage efficiency
• Created presentations on a biweekly basis to share research progress with mentor and PI

CNC (Computer Numerical Control) Machine Programmer/Operator August 2011 – February 2013
Space Lok, Inc., Gardena, California
• Programmed Haas/Okuma CNC lathe machines to manufacture metal fasteners, nuts, and washers
• Adjusted and operated machines in accordance with given blueprints to maintain high product quality

TECHNICAL PROJECTS

Guitar Multi-Effects
• Teamed with four peers to develop a modularized application in Pure Data to modify guitar audio input
• Implemented a headless Raspberry Pi to run guitar multi-effects application to provide the user with a low cost alternative of purchasing multiple guitar pedals

Database Management System Design
• Teamed with two peers to implement a paged file database management system in C++ to efficiently store and scan data records using B+ Tree Indexes while following an object-oriented design
• Designed searching algorithms to have efficient time complexities while considering cost of IO operations

AWARDS

National Science Foundation (NSF) Scholarship Recipient: Fall 2014, Fall 2015
• 2x recipient for NSF Scholarship based on strong academic standing and level of participation in MESA (Mathematics, Engineering, Science Achievement) and SSS-STEM (Student Support Services) programs

Southern California Edison STEM Scholarship Recipient: Spring 2015, Spring 2016
• 2x recipient for Southern California Edison STEM Scholarship based on strong academic standing

RELEVANT COURSEWORK

Analysis of Algorithms	Comparative Programming Language	Advanced Programming in C++
Compiler Design I	Database Systems I & II	Operating Systems
Computational Models	Algorithms & Abstract Data Types	Computer Architecture

ADDITIONAL SKILLS

Languages: Fluent bilingual in Spanish

*Overall GPA calculated from UC transferrable courses from El Camino College and all UCSC courses