

Selahittin Saytas

Graduate student in Computer Science and Engineering at UC Santa Cruz

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PROFESSIONAL PROFILE

Graduate student at UCSC in computer science and engineering seeking a career opportunity. Proven success building intelligent, user-friendly solutions within strict deadlines and project constraints. Ready to develop software and design security practices using **Java, Python, C, C++, Unix, Linux, MIPS Assembly Language, Robot Operating System (ROS), Software Design, Software Development Life Cycle, Fusion 360, OOP, Bash Script, PostgreSQL, PL/pgSQL, System-Level Perspective Skills, UML modeling, Jira, Git.**

EDUCATION

First year graduate student in Computer Science and Engineering; University of California, Santa Cruz

- o Involved in Robust Autonomous Vehicles project in the AIEA Lab at UCSC
- o Teaching assistant for CSE130: Principles of Computer Systems Design

Bachelor of Science in Computer Science; University of California, Santa Cruz

- o Designed and implemented efficient, reliable, and scalable systems using knowledge of computer systems, data structures, and algorithms
- o Managed projects from start to finish, including defining goals, developing plans, prioritizing tasks, tracking progress, communicating status, and meeting deadlines
- o Identified and assessed risks, developed mitigation strategies, and evaluated the feasibility of projects
- o Communicated effectively with teammates and professors about coursework and projects
- o Wrote clear and concise technical documentation and presented technical information in a way that is understandable to non-technical audiences
- o Karl S. Pister Leadership Opportunity Scholarship (\$20,000 over two years)

Associate-level Studies in Computer Science; Foothill College

- o Completed rigorous instruction in the areas of programming and enterprise networking
- o Studied techniques to write clean, scalable, and reusable code, while also leveraging existing code libraries
- o Learned to organize large, complex programs and enable extension using logical thought processes
- o Gained experience gathering, documenting, and analyzing end user requirements in industry-accepted ways
- o National Science Foundation S-STEM Scholarship (\$3000 in 2018-2019)

Associate of Science in Health Information Technology; Istanbul University

SELECTED PROJECTS

Huffman Encoder: Implemented an algorithm to save space and increase efficiency by reducing data size

Searching and Sorting Algorithms: Utilized Unfolding Maps and Processing GUI to build a map application that accesses real-time, actionable earthquake data

Hamiltonian Path: Developed a depth-first search algorithm that requires minimal memory to find the shortest path from source to destination

RSA Algorithm: Created a key generation program to protect the security and accessibility of information assets

Data Structures: Used Linked List, Tree, and Hash Map ADTs to develop a text editor that organizes a large amount of text data, and provides an intuitive, user-friendly graphic interface

Robotics Club: Organized and led a robotics club at Foothill College, providing students with hands-on experience in computer science, engineering, and math

WORK HISTORY

UC Santa Cruz

2024

Teaching Assistant – For Principles of Computer Systems Design (CSE130) at UCSC, where I facilitate weekly discussions covering core concepts like memory, concurrency, and system models, helping students grasp the fundamentals of designing high-performance systems.

UC Santa Cruz

2023

Class Tutor – For Database Systems (CSE180) and Database Management Systems (CSE182) at UCSC, where I lead several weekly sessions to teach class concepts to students and help them with assignments and exam preparation

Cratus Technology

2021

Intern – Successfully supported multiple business modernization projects, including API creation and integration of IoT devices to Google Cloud services

American Hospital

2014 – 2015

Medical Record Technician – Used EMR to compile, review, document, and file patient information using accurate medical terminology

Istanbul University

2009 – 2010

Medical Record Technician – Wrote reports, photographed medical images, maintained a detailed publication database, and managed other informational assets at the university's Cardiology Institute

Member of the Homebrew Robotics and SV ROS Clubs | Professional English and Turkish language skills