

# Saketh Pabolu

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## EDUCATION

### Arizona State University

Tempe, AZ

*Bachelor of Science in Computer Science; Minor in Data Science*

*Aug 2021 – May 2025*

**Relevant Coursework:** Data Structures & Algorithms, Information Assurance, Distributed Software Development

**Recognition:** Dean's List, Next Generation Service Corps, Medallion Scholarship

## SKILLS

**Technical Languages:** JavaScript, Python, Java, C, C++, Swift, SQL, HTML, CSS, Bash

**Libraries, Platforms & Tools:** NodeJS, React, Numpy, Scikit, Raspberry Pi, Astah, Docker, Axios, AWS, Git

**Clubs & Orgs:** Python Users Group, Software Developers Assoc., ML Club, EPICS, Grand Challenges Scholar

## PROFESSIONAL EXPERIENCE

### SolarSPELL

Tempe, AZ

*Off-Grid Raspberry Pi Optimizer Intern*

*Jan 2022 – Apr 2022*

- Conducted research on the Raspberry Pi Wi-Fi module preventing from allowing concurrent connections
- Prepared a presentation with my findings on increasing the concurrent connections to the system by 200%
- Modified the system packages to a stable iteration of Raspbian OS where devices could jointly access Pi's hotspot

### Stardust Building - EPICS at ASU

Tempe, AZ

*Prototyping Lead*

*Jan 2022 – May 2022*

- Researched the current state of solar panel industry and process of recycling solar panel in Arizona
- Analyzed a budget-friendly solar panel testing platform to standardize output efficacy on decommissioned panels
- Actively collaborated with one of the board of directors of Stardust to finalize the prototype

### Fulton Schools of Engineering

Remote

*Web Security Intern*

*Jun 2021 – Jul 2021*

- Answered the question "What happens when you type google.com into your browser and press enter?"
- Researched how the browser extensions work and browser fingerprinting happens in the background
- Designed and implemented a program that fingerprints the browser extensions based on DOM changes

### CodeLabs by CodeDay

Remote

*Web Development Intern*

*Jul 2020*

- Brainstormed a plan of action to execute a coherent UI/UX design process
- Contributed several components, on Angular framework, of the website to an established repository
- Presented virtually to the CodeLabs conference highlighting the prototype and its real-world implications

### Chandler Police Department

Chandler, AZ

*Computer Security Intern*

*Jun 2019 – Jul 2019*

- Placed in a business atmosphere and displayed maturity in systems administration
- Contributed to the mentor's work and accountable for network security checks
- Maintained amenable character and adapted to different technologies based on the vulnerabilities in the system

## RELEVANT PROJECTS

### Courseer | *React.js, Firebase, Stripe, Node*

- Developed a full-stack React website with 150+ users, aiding students in enrolling in desired classes
- Established a server-side system for tracking class availability, ensuring prompt text notifications

### AWS Seamless Authentication | *DynamoDB, Lambda, Axios, Node*

- Implemented the front-end with JavaScript and utilized camera library to allow users to scan their event passes
- Connected the backend API gateway by sending POST requests using Axios Promise based HTTP client

## OTHER WORK EXPERIENCE

### Arizona State University

Tempe, AZ

*Sun Devil Sparky Mascot*

*Oct 2021 – May 2022*

- Conveyed ASU's enthusiasm and spirit in engineering to audience taking special care with children, and VIPs
- Kept optimal physical conditioning to handle long periods of standing and wearing heavy, hot consuming pieces