Open Source Software Team
Career Paths
...In Tech!

April 25th, 4-5PM CS 401

Launch into the vast expanse of collaborative development, exploring new frontiers and innovating together!

Self link: acmcsuf.com/career-paths-slides

Open Source Software team

Who are we?

Tomas (tomasohCHOM)

Ethan(EthanThatOneKid)

Karni (karnikaavelumani)

Evan (EvanCPSC)

Owen (JOwen-ster)

Oscar (oscisn93)

Meeting 4/18 recap

Last week's slides: acmcsuf.com/htmx-go

Last week we went over the basics of HTMX and Go. Feel free to reach out to @Ethan, @Karni, @Tomas, @BigO, @Evan, @Owen in the ACM server (#💗just-chatting or DMs) to get a re-reminder! **REMEMBER, you can come to any meeting regardless of the previous workshop, so don't hesitate to come!**

REVIEW DOCS!!!
(acmcsuf.com/oss-docs)
REVIEW MEETING NOTES!!!
(acmcsuf.com/meeting-notes)

Make sure you selected the Open Source Software Role in # ID get-roles

acmCarl ✓ BOT 06/29/2023 3:28 PM
Select one or more of our teams to get notifications about them!

⚙️ **AI Team**
Artificial Intelligence and Machine Learning Projects
🔷 **Algo Team**
Data Structure and Algorithms, Technical Interview Prep
💈 **Design Team**
UI/UX, Front-End Development, HTML/CSS
🔗 **Dev Team**
Software Engineering, Projects, Technical Workshops
🎮 **Game Dev Team**
Unity, Unreal, and Blender

🖥️ **ICPC Team**
Competitive programming competition
🚀 **OSS Team**
Open source software development

⚙️ 152 🔷 178 💈 128 🔗 185 🎮 122 🖥️ 69 🚀 151

You will have access to all our channels

Career Paths in Tech

by **Open Source Software** Team

🕐 Thursday, Apr. 25th, 4-5 PM

📍 CS-401

If you have or haven't found your place in tech, join us for a mini workshop on **career paths** in tech!

acmcsuf.com/discord

Meeting 4/25 Agenda

Open Source Software Team

3:00 PM-3:45 PM	Hang and Game	PLN Floor 2
4:00 PM-4:30 PM	Career Paths in Tech	CS 401
4:30 PM-5:30 PM	OSS project work session	CS 401
6:00 PM-7:00 PM	Design Workshop	MH 463
7:00 PM-8:00 PM	Grab dindin	Chipotle

Library of the week: Pollak Library

Addressing Last Week's Form:

- **What is the advantage of using HTMX rather than ReactJS?**

HTMX enhances server-rendered web apps with interactions that uses less extensive client-side JavaScript.

- **What is your favorite game?**

Ethan: Pokemon
Karni: Phoenix Wright
Tomas: Mario and Luigi Bowser inside story or Minecraft
Oscar: Loteria
Owen: Splatoon
Evan: Balatro

- **If you dedicated all your time everyday to training to jump higher how high do you think you could jump in a year**

With dedicated daily training, you could potentially increase your vertical jump by 8 to 16 inches over a year, depending on factors like your starting point, genetics, and training effectiveness. - ChatGPT

# Let's get into the *workshop*!

Let's preface this by saying...

FAANG <u>isn't</u> the only industry that exists for Computer Science

Industries you can join!

- Information Technology (IT) and Networking
- Finance and Fintech
- Cybersecurity
- Healthcare/biomedical
- Telecommunications
- Automotive
- Entertainment and Media
- E-commerce
- Energy and Utilities
- Education Technology
- Aerospace
- Internet of Things (IoT)
- Artificial Intelligence and Machine Learning
- Data Analytics and Big Data
- Government and Public Sector
- Retail and Supply Chain Management
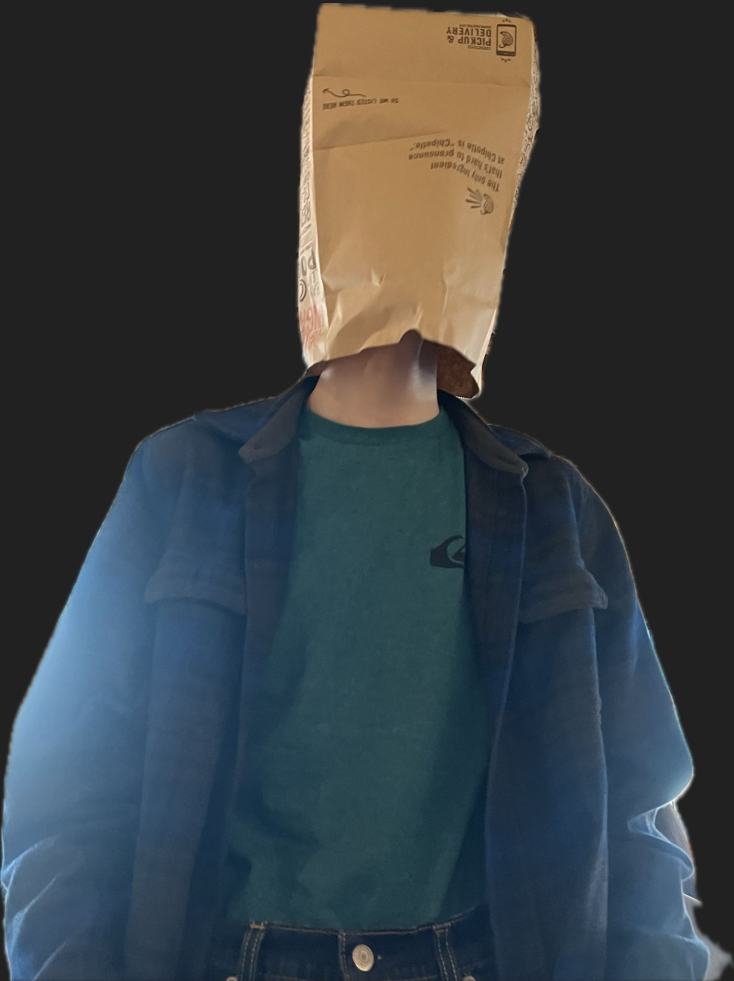
How do I get *involved*?

Artificial Intelligence and Machine Learning

- Get involved with ACM!
- Meet the different teams and learn what topics interest you the most.
- These teams will give you the ability to work on projects with others to put on your resume!
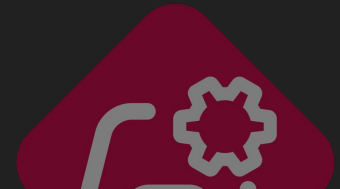
Automotive/Aerospace

- Get involved in clubs!
- Titan Rover gives you the opportunity to write code for its functions and you'll get the opportunity to compete in sending it to mars.
- Titan Rocket provide students with opportunities in competition and research based rocketing with an intent to contribute to the aeronautics field.

Not only that, but...

Software engineering isn't the only job available for Computer Science

Industries you can join!

- Software Developer/Engineer
- Web Developer
- Mobile App Developer
- Data Scientist
- Database Administrator (DBA)
- Systems Analyst
- Network Engineer
- Cybersecurity Analyst
- Machine Learning Engineer
- AI Engineer
- Cloud Engineer
- Game Developer
- UI/UX Designer
- Quality Assurance Test Engineer
- Technical Support Specialist
- DevOps Engineer
- Product/Project Manager
- Computer Science Researcher
- IT Consultant
- Entrepreneur/Startup Founder

How would I get *experience*?

Web Developer

- Contribute to our website and work on issues to fix.
- Understand how to write appropriate HTML5, CSS3 and ES6 JS.
- Create pages for the ACM teams when requested.
- Learn new frameworks!

- 5+ years experience as a Web Developer or Front-End Engineer, with a focus on front-end development and coding.
- Proficiency in HTML5, CSS3, JavaScript, and modern front-end frameworks/libraries (e.g., React, Vue.js, Angular). React experience is preferred.
- Experience working with Next.js
- Experience with developing and maintaining Unit Tests.
- Experience working with headless CMS platforms (Sanity preferred).
- Strong knowledge of web standards, accessibility guidelines, and SEO best practices.
- Excellent problem-solving skills and attention to detail for debugging and troubleshooting.
- Familiarity with version control systems (e.g., Git).
- Hands-on experience with project management, development, and tracking tools (i.e. Asana, Jira)
- Effective communication and collaboration skills for working with cross-functional teams.
- Ability to work in a fast-paced, ever evolving growth-oriented environment.
- Also nice to have: experience developing backend automation

DevOps Engineer

- Learn new principles with our [workshops](#)!
- Work on [projects](#) and understand the workflow of our CI/CD pipeline such as through GitHub workflows, Gitcord, and many more.
- Get certified to prove you know it.

Duties/Responsibilities:
- Proven experience as a DevOps Engineer or similar role, with a focus on infrastructure
- Strong expertise in cloud computing platforms (AWS preferred) and related services
- Proficiency in scripting and programming languages such as Python, Bash, or Go
- Experience with containerization technologies such as Docker and Kubernetes
- Solid understanding of "infrastructure as code" principles, and experience with tools like Terraform, Ansible, or Chef.
- Familiarity with CI/CD pipelines and related tools (Gitlab CI/CD experience preferred)
- Experience with monitoring, logging, and alerting tools (ELK stack and Sensu experience a plus).
- Experience with database management systems such as MySQL, PostgreSQL, or MongoDB.
- Strong problem-solving skills and the ability to troubleshoot complex issues in a production environment.
- Excellent communication and collaboration skills, with the ability to work effectively in a cross-functional team environment.
- Relevant certifications (e.g., AWS Certified DevOps Engineer, Certified Kubernetes Administrator) are a plus.

Entrepreneur/Startup Founder

- Network and make some friends/connections!
- Come together and make ideas that you can bring to life and even potentially sell!
- Current companies have been struggling to give employees job security so start looking into smaller startups or make your own!
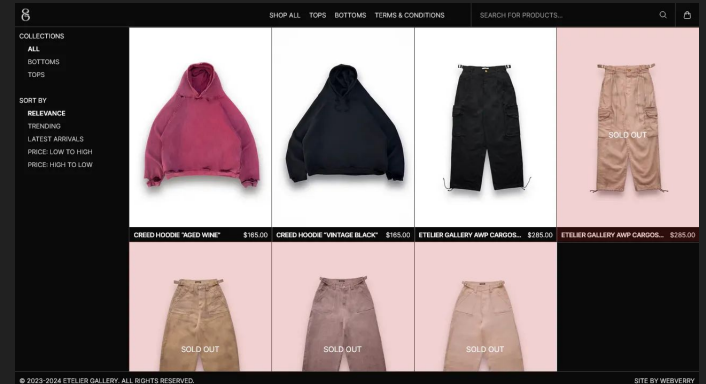
Resources

- [CSSG Career Path Slides](#)
- [Resume Workshop](#)
- [Linkedin + Student Resources Workshop](#)

Attendance form + Questionnaire
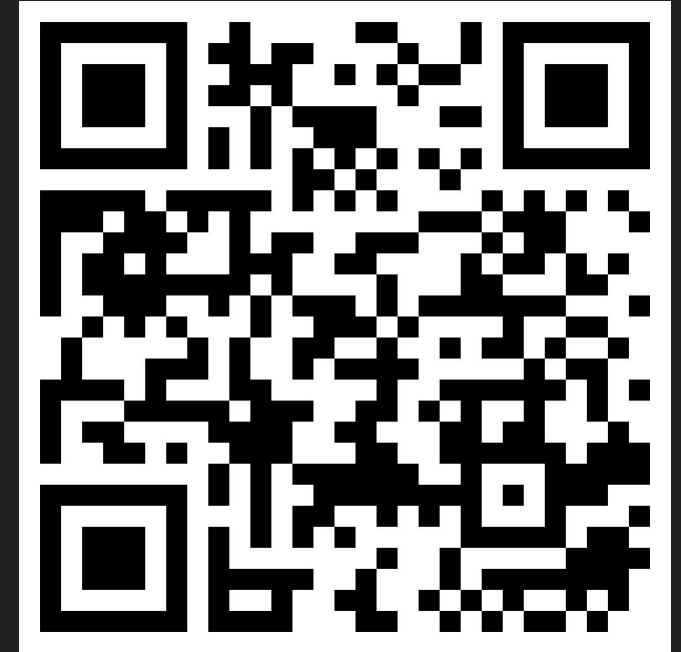
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Final **workshop**

Commencement!
Prizes, awards, and everything we've accomplished!

Hosted by: All of us!

1:1 Meetings

Schedule a 1:1 meeting with us so that we can help you with contributing to a project!

These are guided meetings so don't hesitate to meet with us! This will span from April 19th up until May 1st!

Fill out: lettucemeet.com/l/VYxO7

Project status: acmcsuf.com

ACM Elections

Elections in particular to this team will always be internal so stay tuned for <u>next week</u> as we will be putting out applications for OSS Officers.
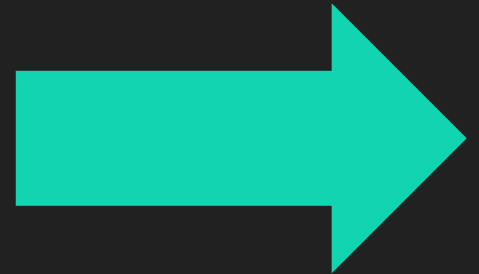
However, we opened up the application for Team Lead unknowingly, so please vote for **Tomas Oh**!

Tomas (<u>tomasohCHOM</u>)

NEXT UP:
Project
Work sesh ➡️

acmcsuf.com/oss-sync