Exploring the Landscape of the Egyptian Software Industry

A Data-driven Approach

Our Team

Hazem Kasim

Section: 1
Bench Number: 24

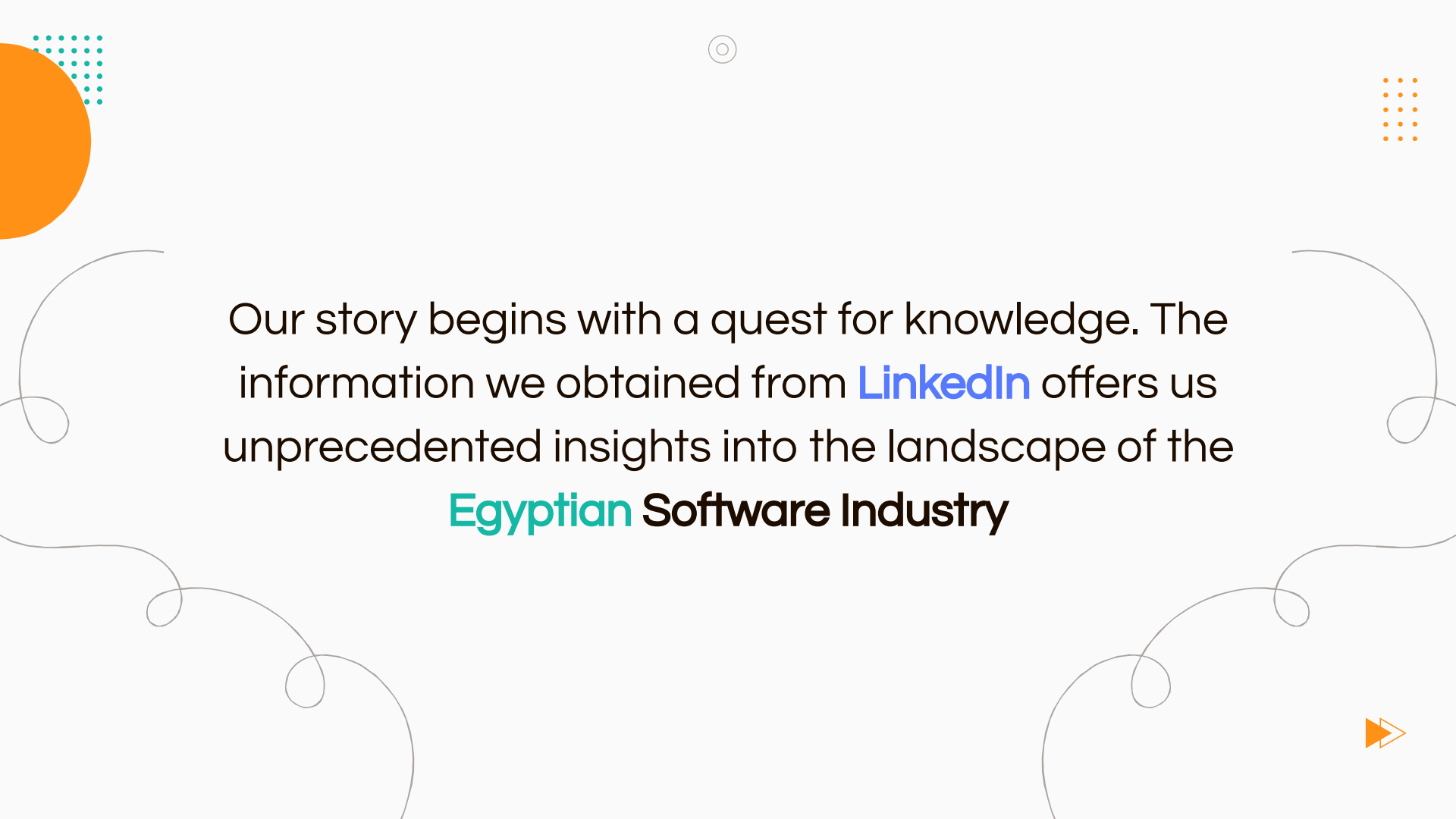**Abdullah Adel**

Section: 1
Bench Number: 40

Mostafa Wael

Section: 2
Bench Number: 28

Yahia Zakaria

Section: 2
Bench Number: 37

Our story begins with a quest for knowledge. The information we obtained from LinkedIn offers us unprecedented insights into the landscape of the Egyptian Software Industry
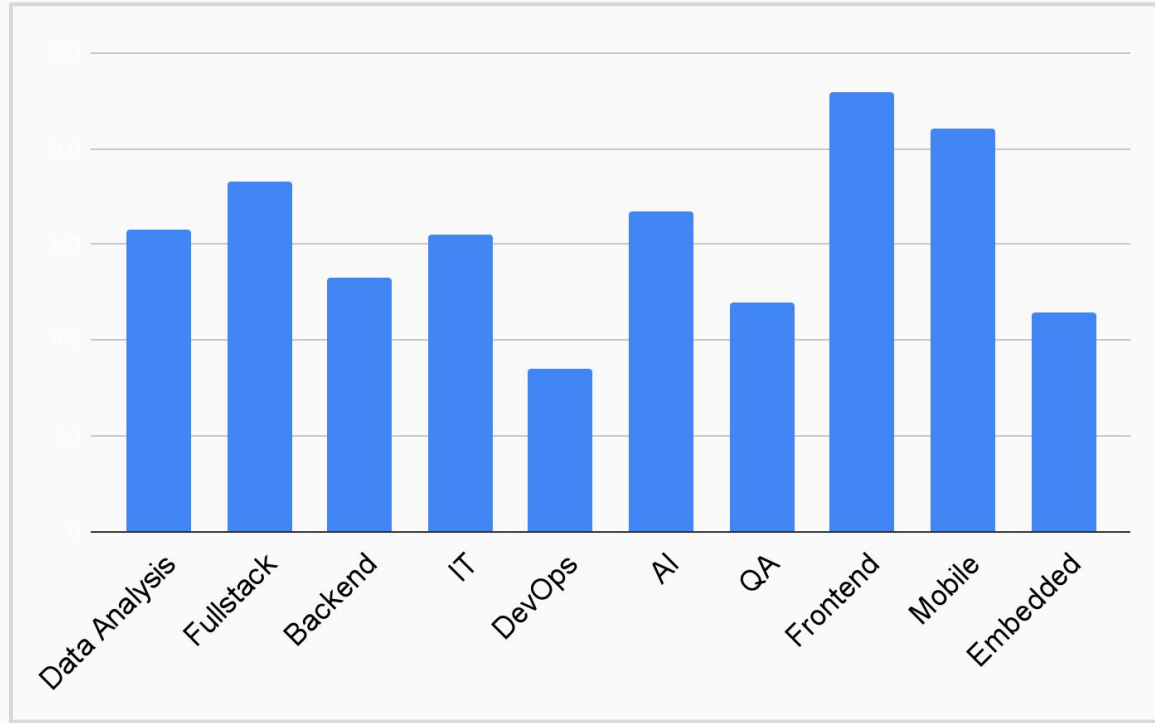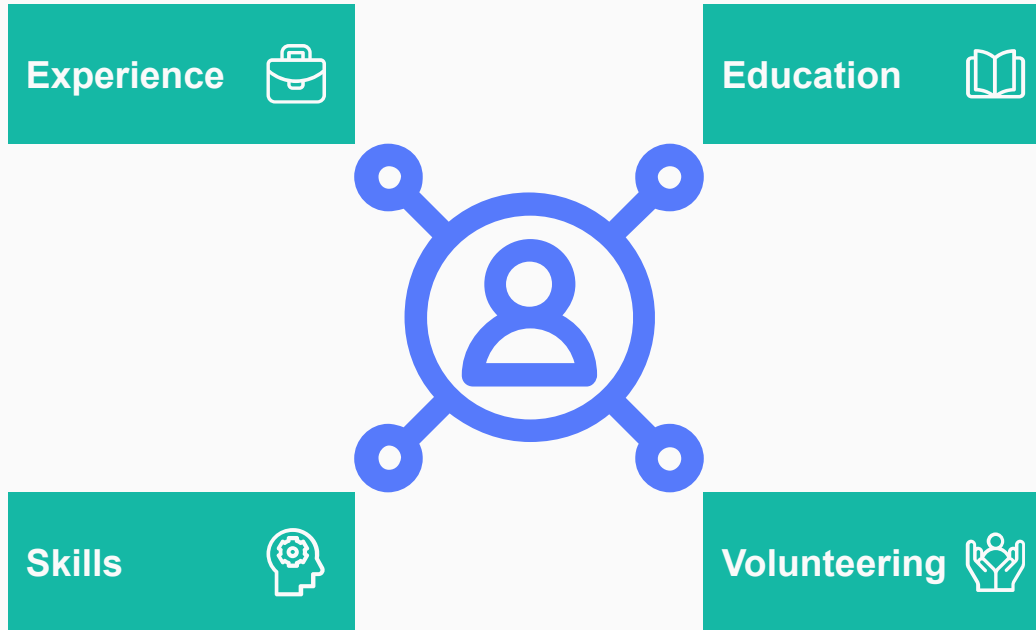
+1,000 Companies

+30 Universities

+1,000 Employees in +10 Fields

User's Information

Experience

Education

Skills

Volunteering

Let's Begin!

Meet Hazem

Our 4th year CMP friend

What does Hazem want?

Hazem is about to graduate from Cairo University with Bachelors in Computer Engineering and he was seeking help to find work opportunities in the **software industry in Egypt**

So, let's help him!

What field to choose?

Hazem started asking us about what field would be the most suitable for him knowing that he is interested in **Backend Engineering** and **Cloud Computing**

To answer his question, we thought of exploring the software fields in Egypt and see what fields had an increase in the number of jobs in the past couple of years

Count of each Software Field
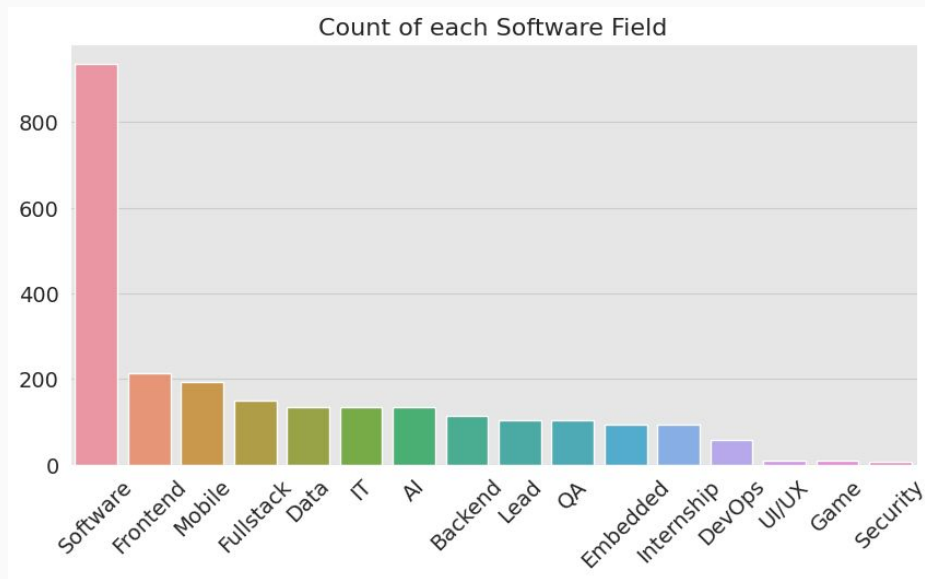
What field to choose?

Hazem chose **DevOps** as he is interested in Cloud Computing more than Data and AI!

Difference of each job title Before and After 2021
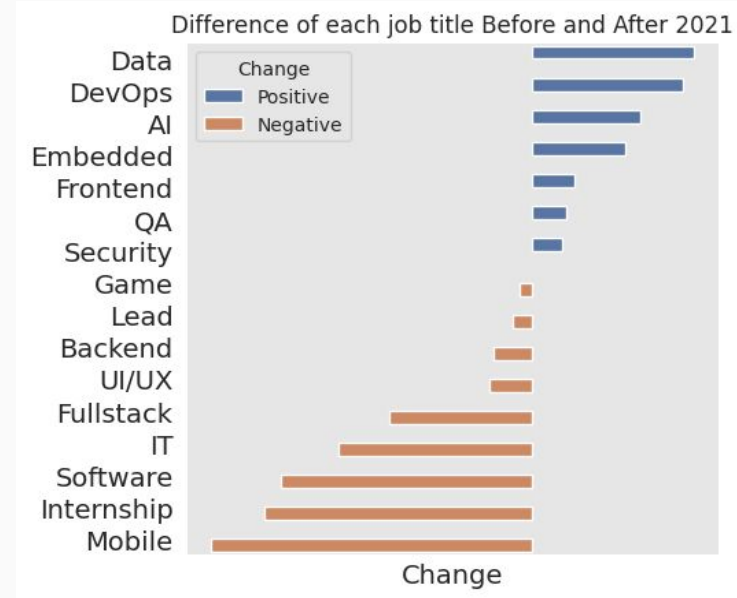
Do student activities help?

Hazem told us that he has participated in student activities in his early years in college

So, we wanted to see if that would give him an edge while applying for DevOps openings at the top companies in Egypt or not

Do student activities help?

It seems like volunteering in student activities doesn't have that much effect on finding a job in the market as companies don't care about it that much

So, Hazem may use his volunteering experience in student activities while applying at Vodafone, Valeo, or Microsoft as they seem to be the ones most interested in that fact
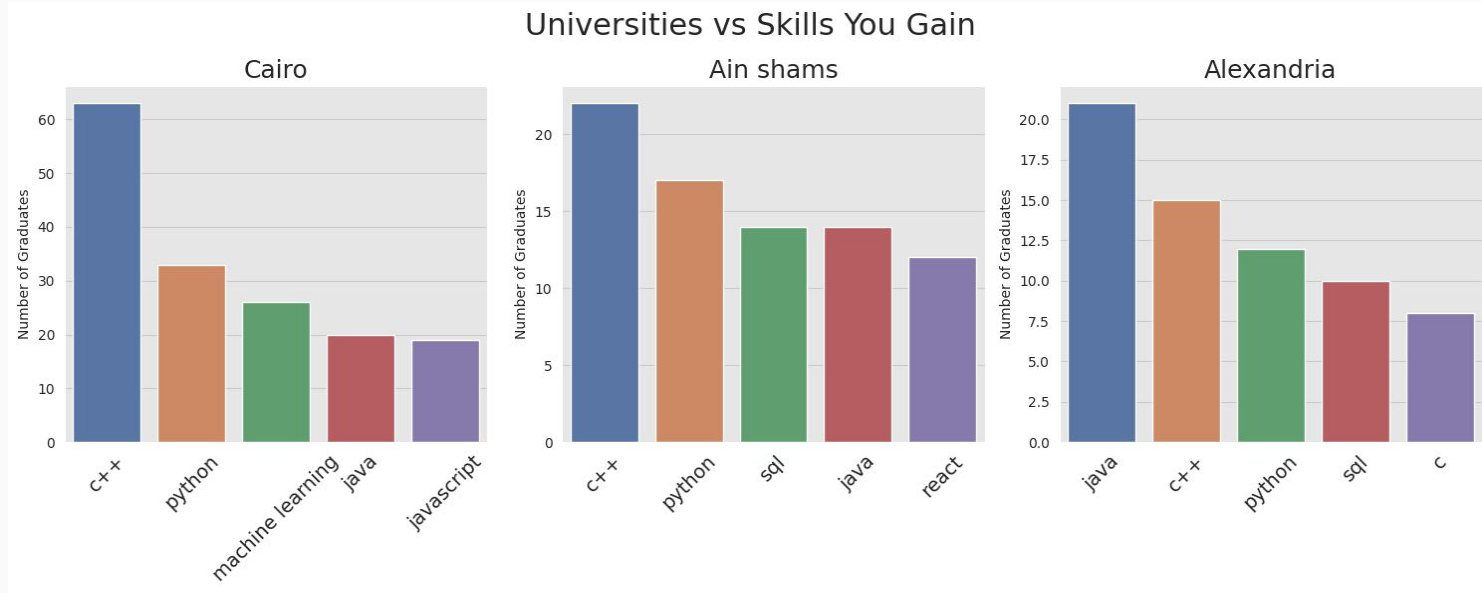

Ratio of people who have volunteering for each company
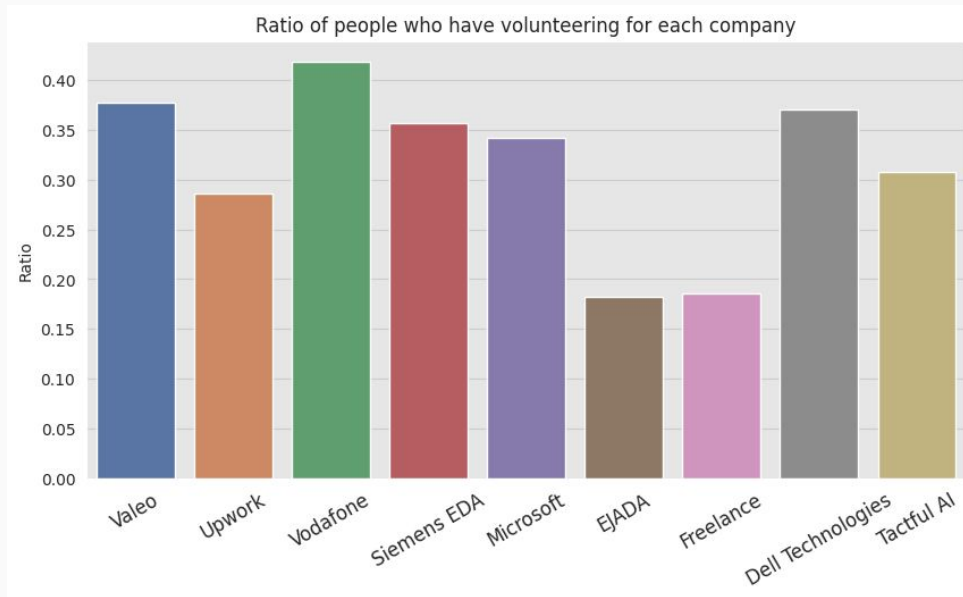
Do student activities help?

We thought if a university has some effect on the careers of its graduates and we found out Cairo University has the largest share in the job market as seen in the figure
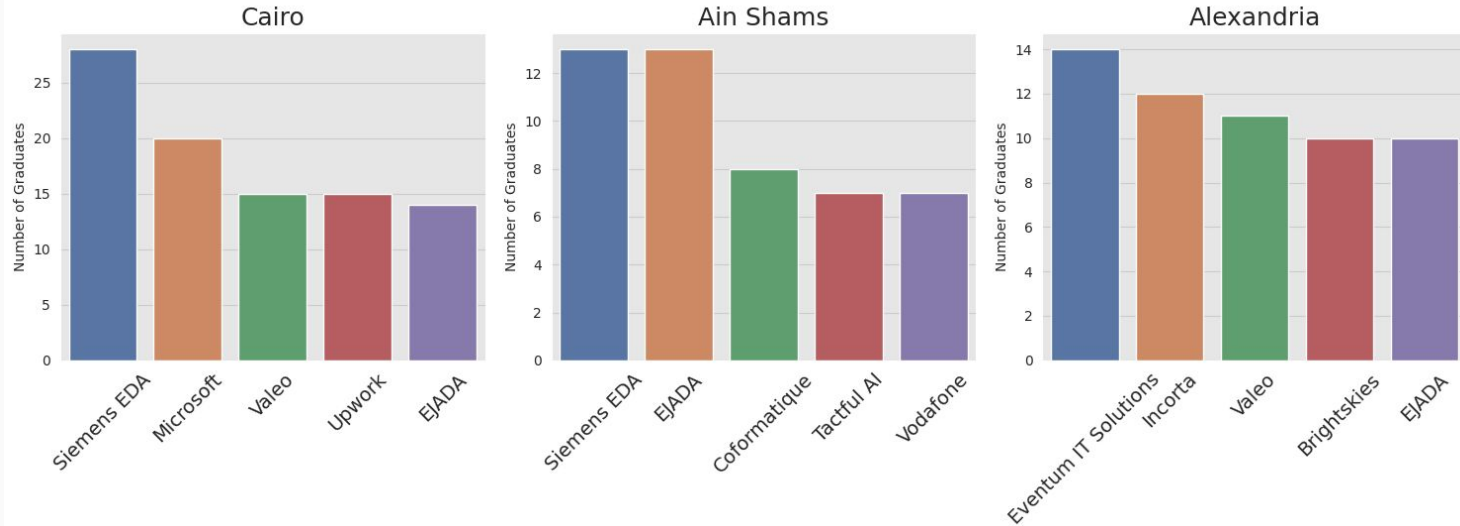
What about the university?

Universities vs Skills You Gain
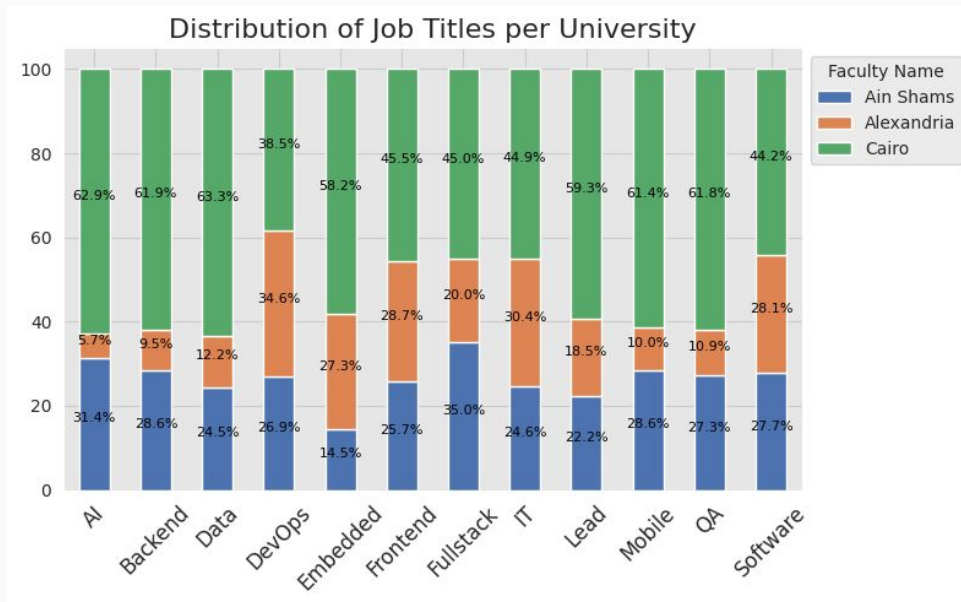
What about the university?

What about the university?

So being a Cairo University graduate may help Hazem find his first job as a DevOps Engineer!
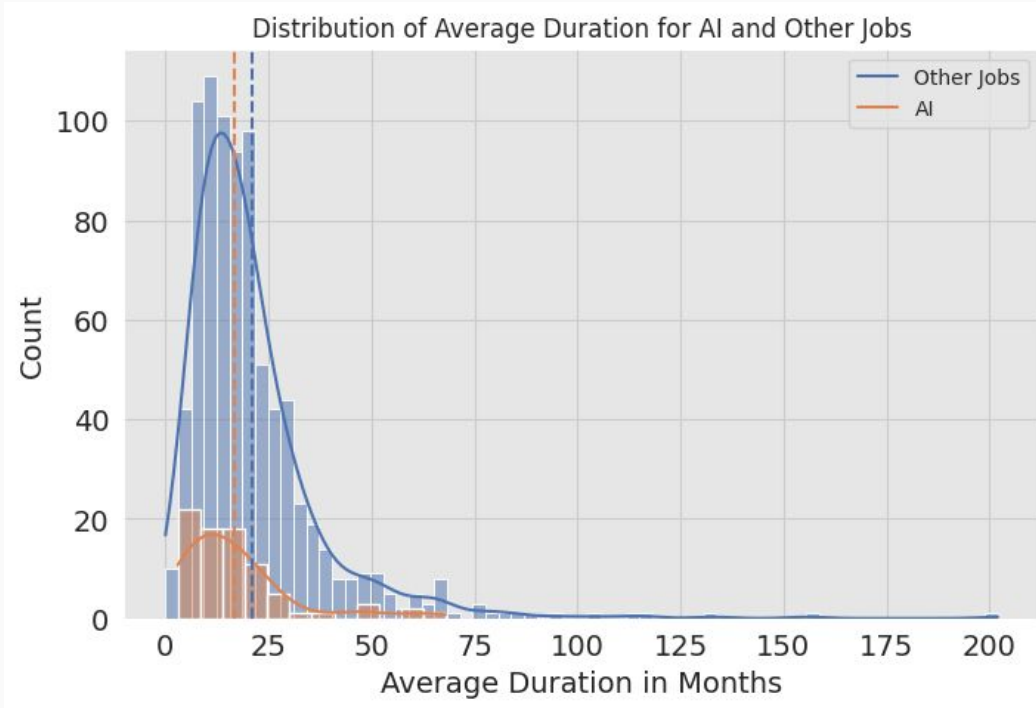

Distribution of Job Titles per University

Will my career be stable?

A way of measuring career stability can be done by measuring the average duration that employees spend in one company in the software industry

The global average duration is 2~3 years, while in Egypt it is less than 2 years. This can be objective, but it seems that careers in software industry are not very stable compared to other professions
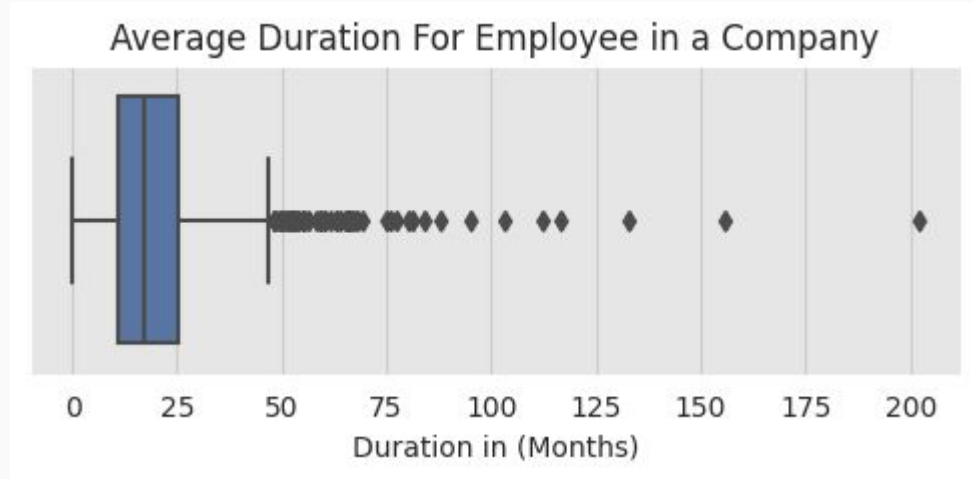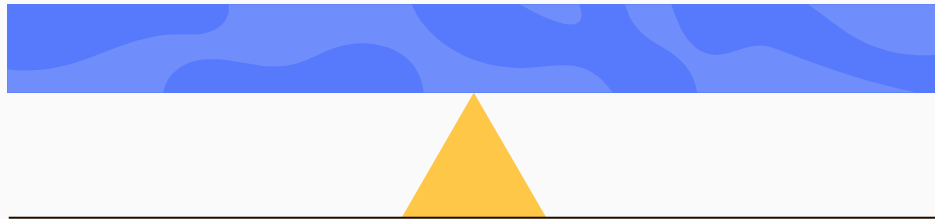

Average Duration For Employee in a Company

Duration in (Months)

AI is even less stable!

Distribution of Average Duration for AI and Other Jobs

Is it a must to join ITI?

Actually...

Is it a must to join ITI?

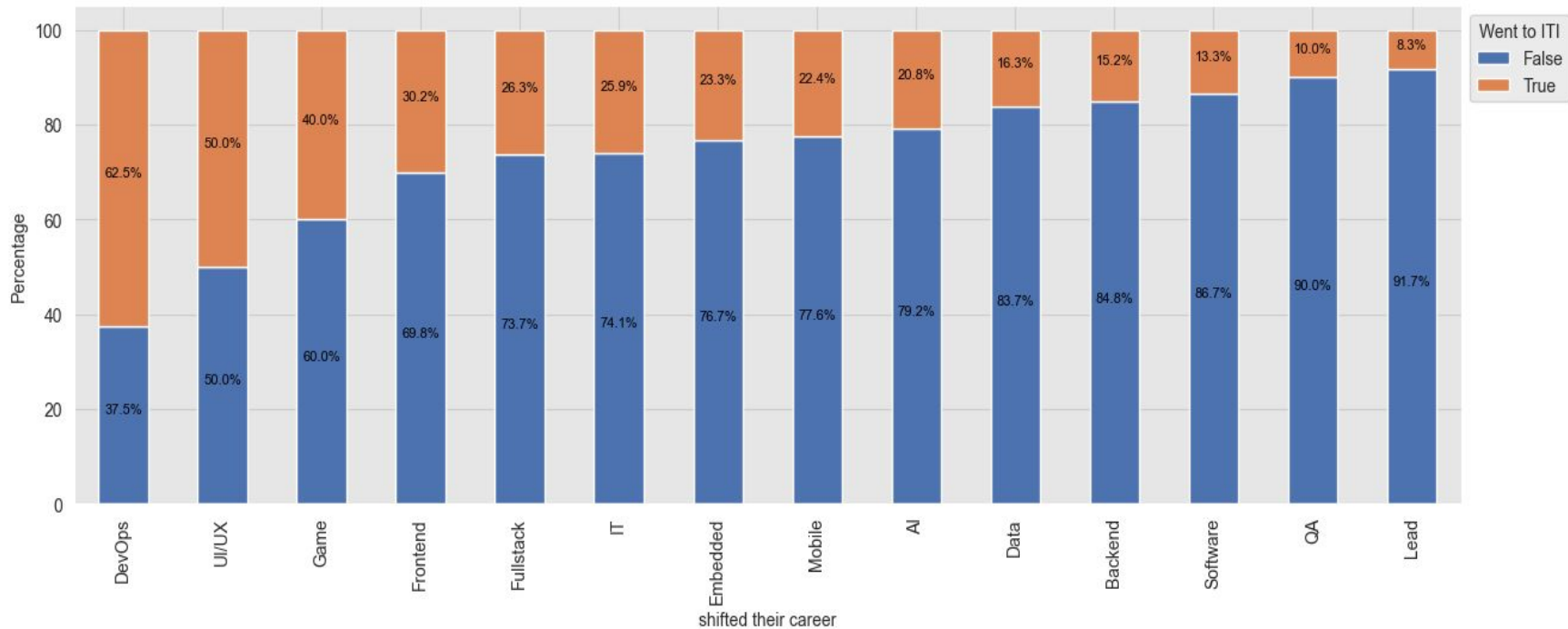Number of users who have iti in their education and the number of users who don't have iti in their education
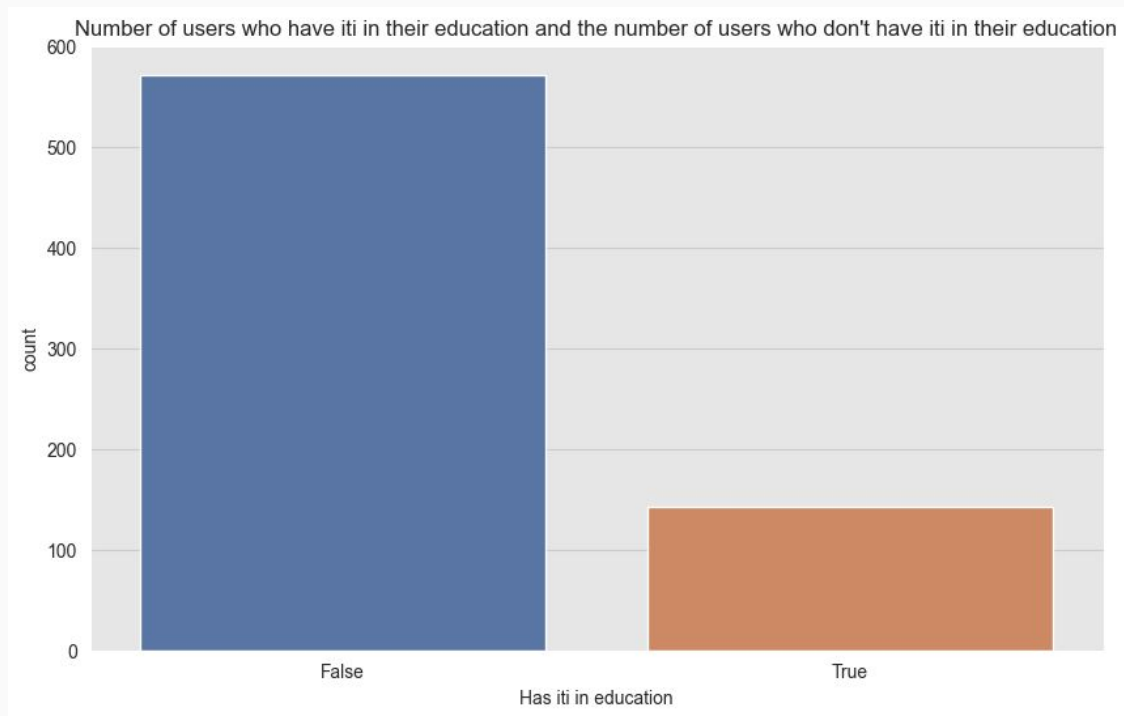
But...

Distribution of the software fields for those who went to ITI and those who didn't
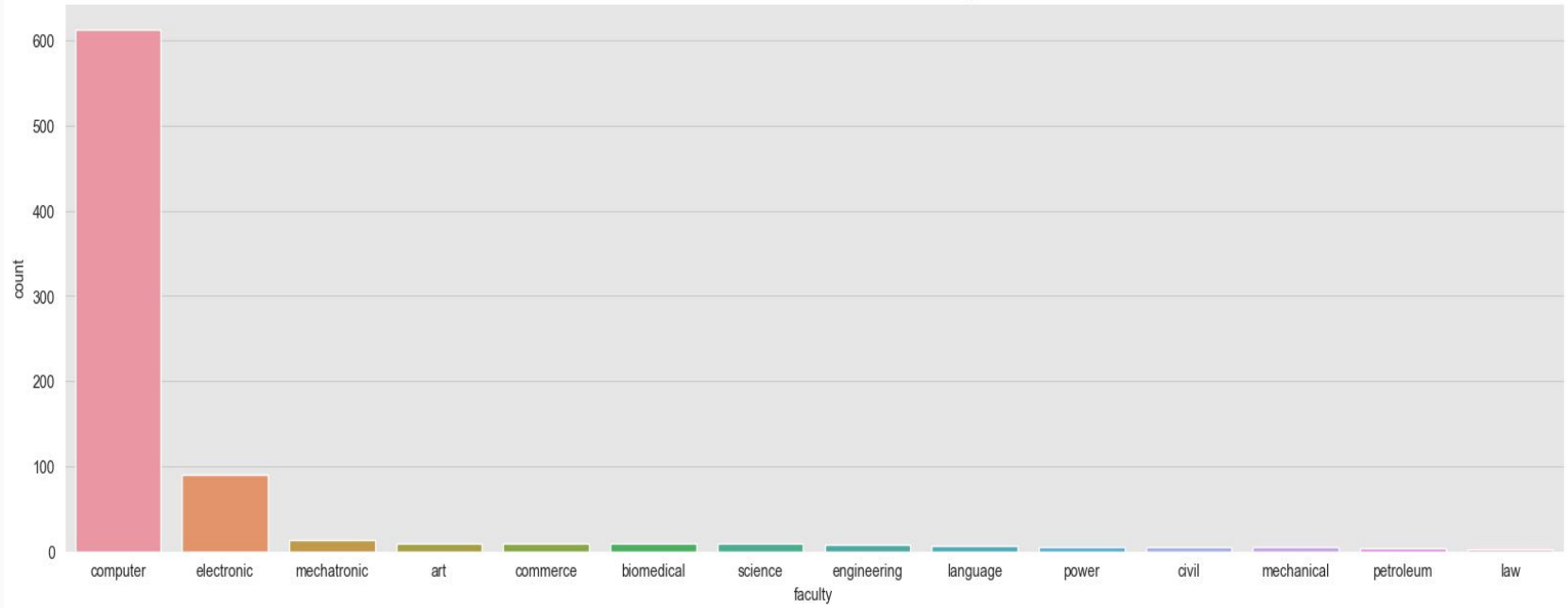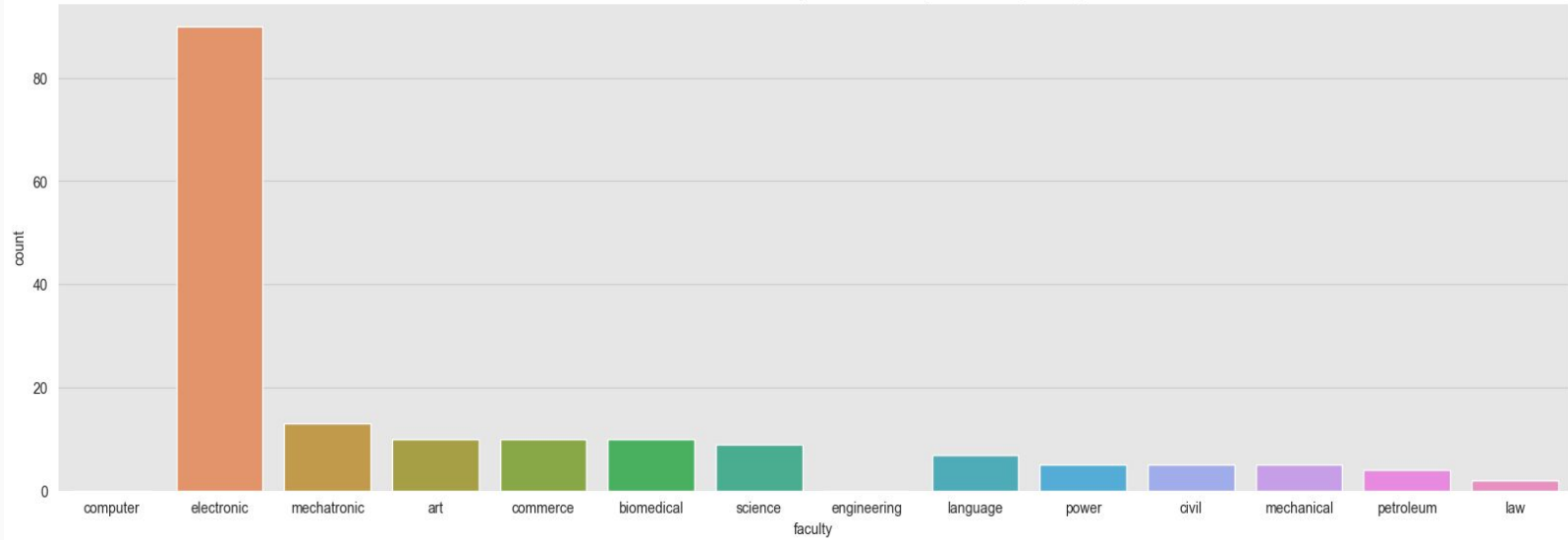
What about people who aren't CS/CE graduates?

This is Wael, Hazem's friend. He graduated from electronics and communication engineering last year and he wants to make a shift career into software
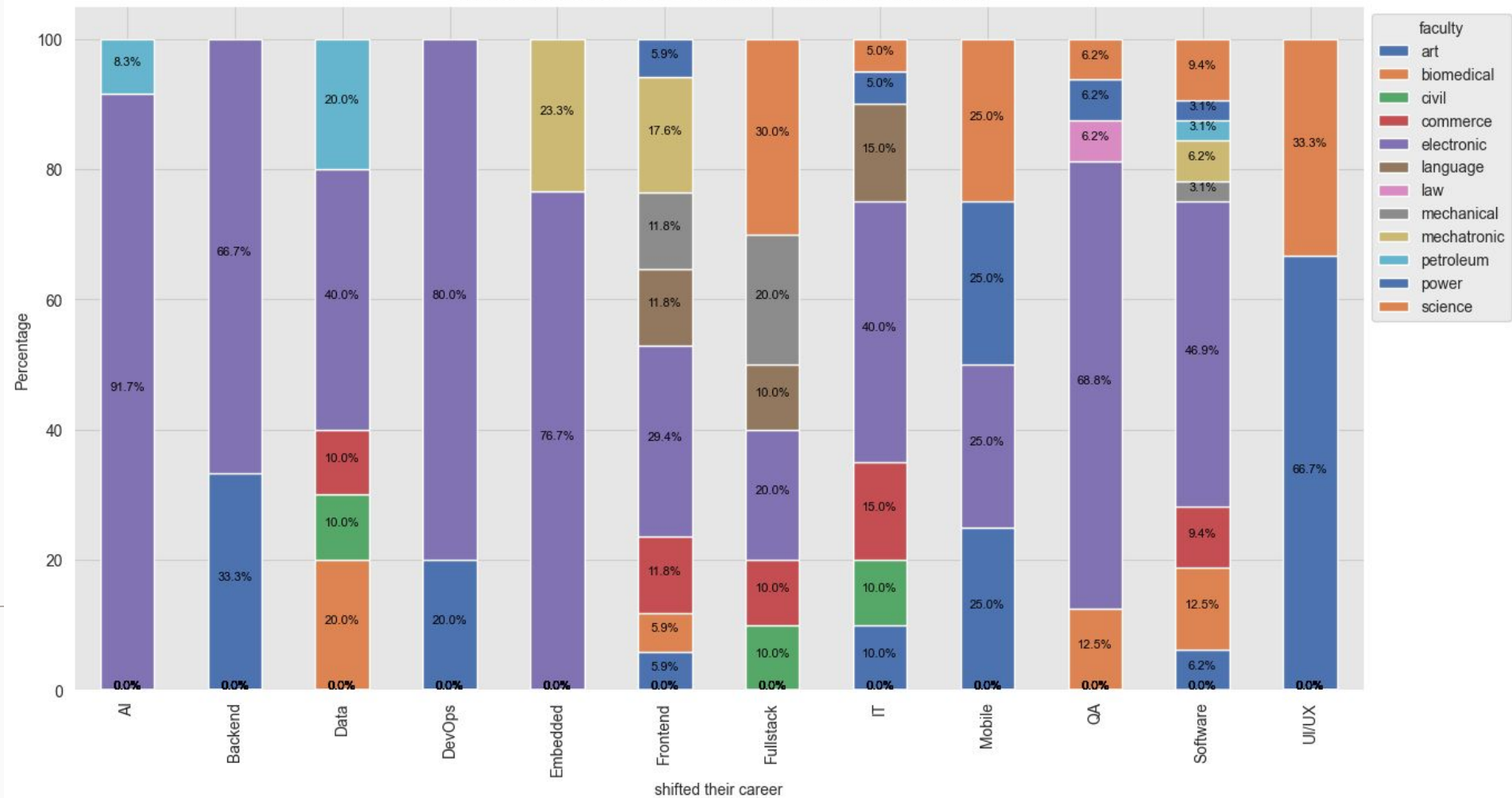
Distribution of the users based on their faculty

Distribution of the users based on their faculty without the computer and engineering faculties
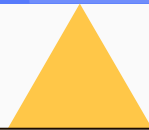
Distribution of the software field for those who shifted their career

Why?

Why Do They Want To Get Into Software?

Background

There are some common courses between the electronics major and the CS/CE majors
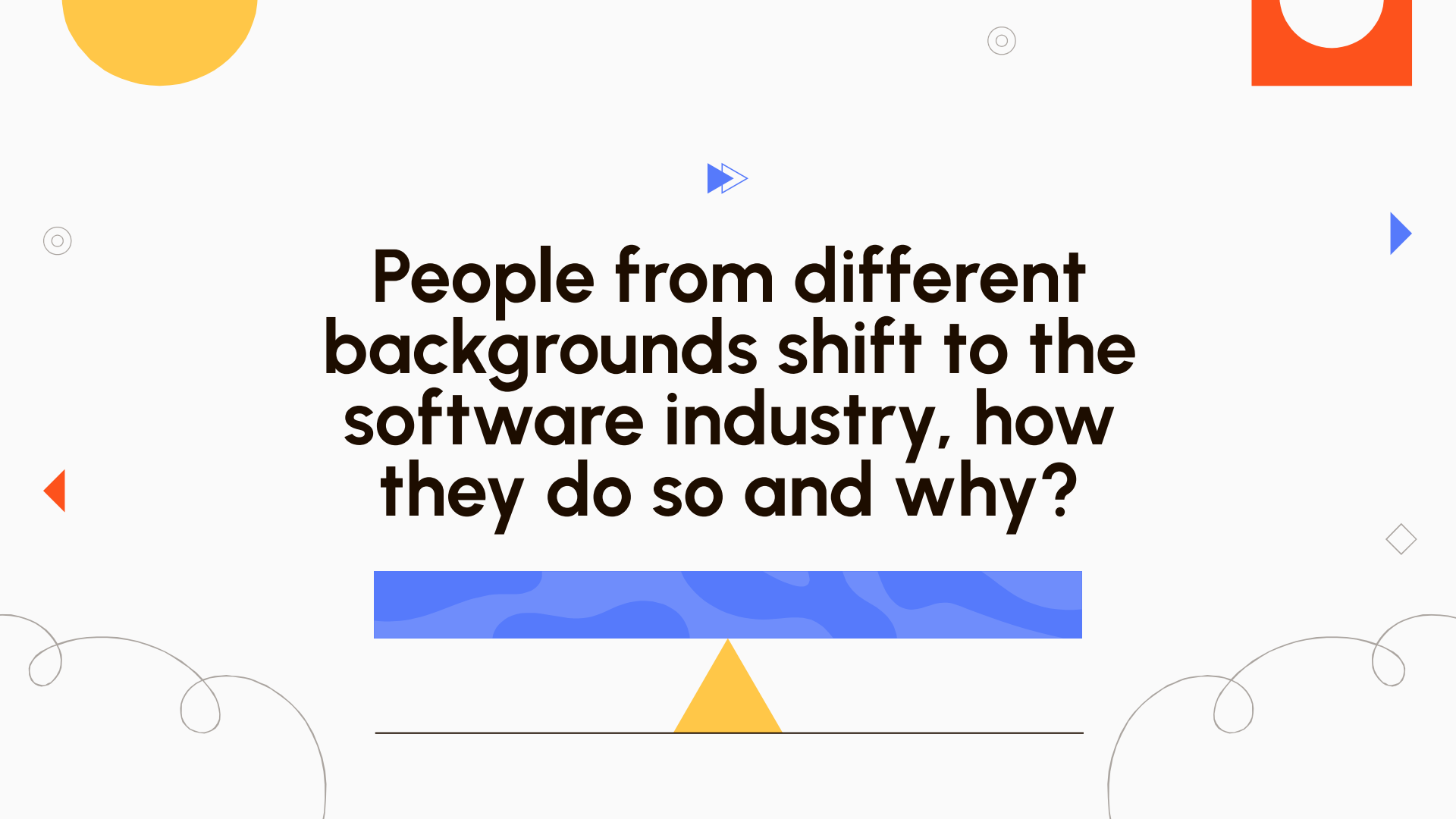
Rejected

Due to the CS/CE majors acceptance criteria, they couldn't join the major

Interest

They have studied some programming courses in and became interested in the software industry

People from different backgrounds shift to the software industry, how they do so and why?

Why Do People Want To Get Into Software?

Money
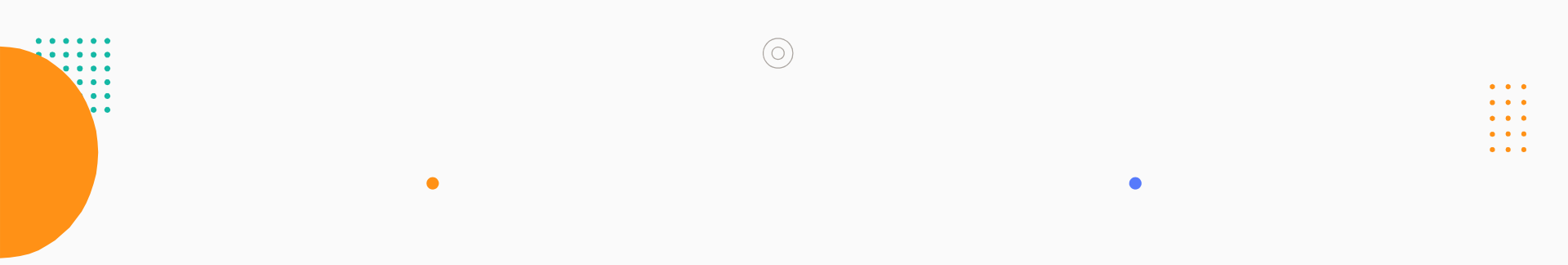High salaries and salary growth

Challenges
Full of daily challenges

Opportunities
Numerous job opportunities

"It's easy to lie with statistics, but it's hard to tell the truth without them"

—Charles Wheelan

Thanks!

Do you have any questions?