

Increasing our visibility: Opportunities in Computer Science

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Who am I?



B.S. Computer Science at
**National University of
Trujillo**



M.S. in Computer Science at
**University of São Paulo in
AI**

Who am I?



PhD in Computer Science at
University of Pittsburgh in
Computer Vision



Research scientist at
Snap Inc.

Who am I?

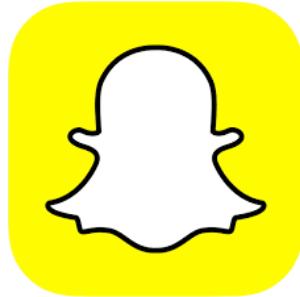
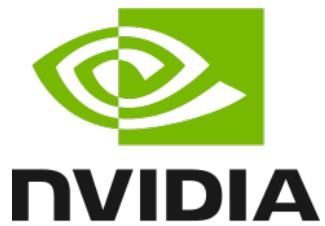


**Assistant professor at
Weber State University**

American Dream: Internships?



[Manuel Bellido](#)



[Walter Erquinigo](#)

Internships: Benefits

Benefits

1. International Experience
2. Increase our personal network and connections
3. Access to mentors for international companies



Phases

1. CV
2. Online Interview
3. Onsite Interview [Full-time jobs]

Internships: Preparation (CV)

Skills

Programming languages: Python, R, Java, C/C++, Matlab, android SDK, Prolog, and Scheme

Tools: tensorflow, theano, keras, caffe, github, weka, liblinear, libsvm, scikit-learn library, slim, amazon mechanical turk

Scripts: HTML, PHP, JSP, JavaScript, linux shell

Technologies: deep learning, reinforcement learning, transfer learning, metric learning, PCA, LDA.

IDEs: NetBeans, PyCharm, Eclipse, Visual C++

Databases: SQL, MySQL, PostgreSQL

Work experience

Computer Science Student Society, Trujillo, Peru.

Software developer

Apr-Jun 2009 / Apr-Sep 2010

- Developed a web platform for Automatic Programming Contests (codeSECC) and a web platform for online exams with automatic grading. All these projects were developed using PHP, javascript, and mysql.
- Platform used for the I Peruvian Programming Contest.

Internships: Preparation (CV)

Work experience

Laboratory of Computational Intelligence, University of São Paulo, São Carlos, SP, Brazil.

Research assistant

Aug 2009 - Sep 2011

- Conceived, developed and implemented a new graph-based machine learning classifier.
- Developed a platform for machine learning experiments using the Java, weka and netkit.
- Wrote and published four articles for conferences in Greece, Brazil, and Peru.

Projects

SELECTED PROJECTS

Cross-modality personalization for retrieval (2018)

Developed a model for study how a person's way of looking at an image (gaze) affects the way they describe it (captioning). Improved accuracy [Python, tensor-flow and slim]

Image retrieval with mixed initiative and multimodal feedback (2018)

Developed an image retrieval system using reinforcement learning to combine: drawing a sketch, providing free-form attribute feedback, or answering attribute-based questions. Improved accuracy on simulated and live users [Python, keras, theano, and tensor-flow]



Internships: Preparation (CV)

- Perform pre-professional internships in the summer.
- Participate in research projects.
- Perform undergrad/grad exchange.
- Pursue a master's degree.
- Participate in programming contests.
- Develop projects
- Learn online courses on Coursera (Financial support).



Undergrad: Exchange and Research Opportunities

- Pacific Alliance Scholarship [[link](#)][[pdf](#)]
 - Participants: Chile, Colombia, Mexico and Perú
 - Modalities
 - Undergrads for 1 semester
 - PhD students, and researchers from 3 weeks to 6 months
 - Deadline
 - Jun and Dec (estimated)
- Delfin Program [[link](#)]
 - Participants: México, Colombia, Costa Rica, Ecuador, United States, Nicaragua, and Perú
 - Research Exchange for 7 weeks



Undergrad: Exchange and Research Opportunities

- Canada ELAP Scholarship [[link](#)]
 - Deadline: March 19, 2024
 - Scholarship
 - Undergrad: \$8'200 for four months or one academic term
 - Master/PhD: \$8'200 for four months or one academic term
 - Master/PhD: \$11'100 for five to six months
 - Application
 - Need a Canadian partner for application
 - Letter of intention
 - Letter of support from Home institution
 - Letter of invitation from Canadian Supervisor



Undergrad: Exchange and Research Opportunities

- PEC-G [[link](#)] [[link2](#)](Brazil Embassy)
 - Scholarship [[link](#)]: R\$ 622 per month (max 6 months)
 - Requirements:
 - Undergrad transcripts
 - Celpe-bras Exam
- USP Scholarships for International Students from PEC-G program [[link1](#)] [[link2](#)]
- ICMC-USP free movers Program [[link1](#)] [[link2](#)][[pdf](#)]
 - No international agreement required
 - Requirements
 - Undergrad Transcript
 - Recommendation letter
 - Portuguese proficiency letter from source University



Master degree: Fully funded

- Brazil
 - PEC-PG [[link](#)] (Brazil Embassy)
 - Master: R\$2100 monthly for two years
 - Brazilian Universities
 - Well-recognized universities provide scholarships for their students.
 - Ranking Capes [[link](#)]
 - Master: R\$2100 monthly for two years
 - ICMC-USP
 - Teaching Assistant Scholarship (PAE) [[link](#)]
 - Food-security scholarship [[link](#)] (apoio alimentação)
- USA
 - Most masters are not funded



PhD degree: Fully funded

- Brazil
 - PEC-PG [[link](#)] (Brazil Embassy)
 - PhD: R\$3100 monthly for four years
 - Brazilian Universities
 - PhD: R\$3100 monthly for four years
- USA
 - PhD are funded via Teaching Assistantship (TA), Research Assistantship (RA), or Scholarships.



Master and PhD degrees from Peruvians (UNT)



Students from National University of Trujillo studying abroad (Source: 2019)

Travel Grants

LatinX in AI grants

- Computer Vision
 - LXCV @ CVPR 2024 [[link](#)] (Jun)
 - Deadline: April 19, 2024
 - LXCV @ ICCV 2023 [[link](#)] (Oct)
 - LXCV @ ECCV 2022 [[link](#)] (Oct)
- Machine Learning
 - LXAI @ NeurIPS 2023 [[link](#)] (July)
 - LXAI @ ICML 2023 [[link](#)] (Dec)
- Natural Language Processing
 - LxnLP @ NAACL 2024 [[link](#)] (Jun)
 - Deadline: April 25, 2024



<https://www.latinxinai.org/>



Travel Grants – LatinX in AI

<https://www.latinxinai.org/>



Projects + publications

		Hindex	Publisher	Conference Details
1	158	IEEE	CVPR : IEEE Conference on Computer Vision and Pattern Recognition, CVPR	Jun 15, 2019 - Jun 21, 2019 - Long Beach , United States http://cvpr2019.thecvf.com/
2	101	NIPS	NIPS : Neural Information Processing Systems (NIPS)	Dec 3, 2018 - Dec 6, 2018 - Palais des Congrès de Montréal , Canada https://nips.cc/
3	98	Springer	ECCV : European Conference on Computer Vision	Sep 8, 2018 - Sep 14, 2018 - Munich , Germany https://eccv2018.org/
4	91	IMLS	ICML : International Conference on Machine Learning (ICML)	Jul 10, 2018 - Jul 15, 2018 - Stockholm , Sweden https://icml.cc/

Requirements

- Research **Full paper, Extended Abstract, or undergrad consortium** submission
- Explain why you need financial support.
- Open to all students (even undergrads)

Benefits

- Tentative scholarship, which covers airline ticket, accommodation (2 hotel days), food, and visa expenses
- Learn the state of the art in AI: talks + posters + tutorials.
- Job fair with international companies

Travel Grants – LatinX in AI

<https://www.latinxinai.org/>



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Financial Support

[<https://www.bestvalueschools.com/faq/what-is-a-statement-of-financial-need/>]

- Presentation
- Explain your economic need
- Explain how the event will benefit you
- Conclusion

Travel Grants – LatinX in AI

I am a PhD candidate at the University of Pittsburgh working on the last project. Mainly, I am supported by **teaching assistantships** from the computer science department and **graduate research assistantships** from my advisor's projects.

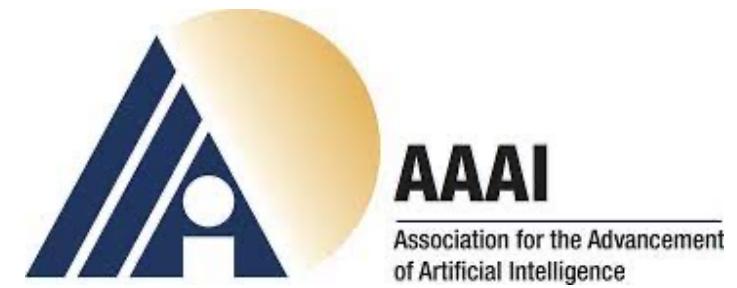
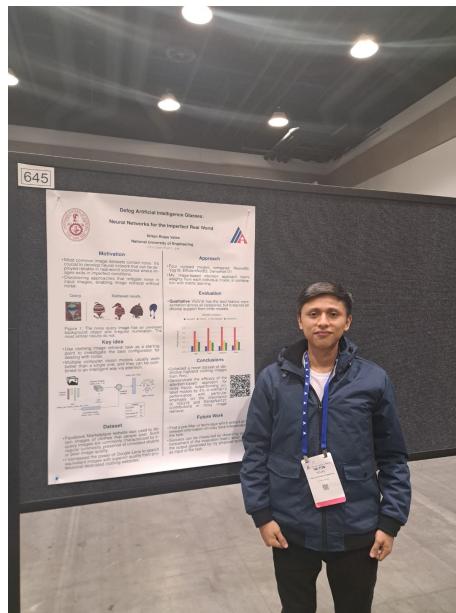
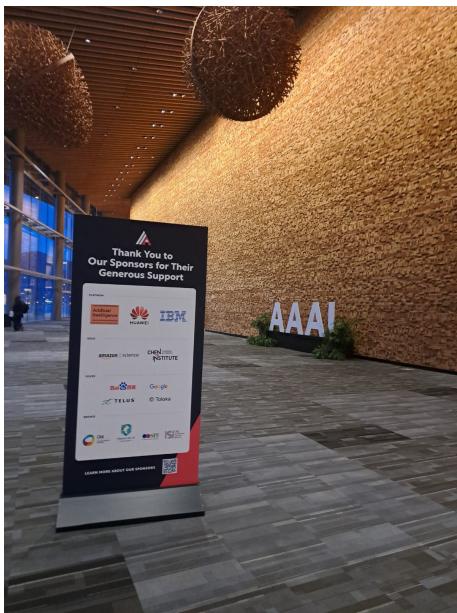
First, I **already used financial support** for conferences at my University. Students presenting articles can obtain a \$600 scholarship from University once per year. However, I had already used this benefit. Another option is my **advisor funds**. However, in our research group, **we had 6 accepted articles** in AAAI, BMVC and EECV; which decreases the feasibility. Note that BMVC was in United Kingdom, which increases the expenses.

Second, going to this workshop will be very beneficial to my **professional growth**. First, I can meet other Latin professionals that can broad my professional network. This will be helpful for **job opportunities** because I am near to graduate. Second, if possible, I plan to attend NIPS conference. NIPS will be great to **know the state-of-the-art** in computer vision and machine learning. I can also benefit from their **career fair**.

To conclude, ...

Travel Grants

- AAAI Undergrad Consortium [[link](#)] (Feb)
 - Personal Statement
 - AI Research Statement



Travel Grants

- LXCV Undergrad Consortium [\[link\]](#)
(March 31)
 - Personal Statement
 - AI Research Statement



Travel Grants

- Women Scholarships ACM [[link](#)]
 - \$600 intra-continental conference
 - \$1200 international conference
 - Requirements
 - Motivation letter
 - Advisor Support
- Widening Natural Language Processing Workshop (wiNLP) [[link](#)]
 - Travel grants for EMNLP, NAACL, ACL, and/or EACL conferences
 - Required an article accepted in the workshop



Registration waivers and travel grants

CVPR

- Diversity and Inclusion Initiative [[link](#)]
 - Author Research Article (preferable)
 - Advisor support (optional)
 - Explain need of support, why you qualify, and how the event will benefit you
 - Minority Group: LatinX
- Doctoral Consortium @ CVPR [[link](#)]
 - Students close to PhD graduation (6 months before or after)
 - CV
 - Research Statement
 - Advisor Support



Nilton Rojas



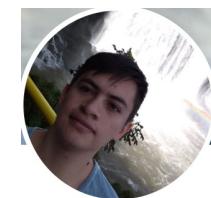
Nils Murrugarra

Summer Schools

- Khipu [[link](#)] (March)
 - Motivation letter
 - Recommendation letter (advisor, professor of a course)
- RIIAA [[link](#)] (Feb)
 - Motivation Letter
 - Recommendation letter
- Nordic Prob AI school [[link](#)](Jun)
 - Deadline: March 1 [[link](#)]
 - Requirements:
 - Motivation letter
 - CV



Ariana Villegas



Jeffri Murrugarra

Summer Schools



Short Courses: 2 months

- Pure and Applied Math Institute (IMPA), Brazil [[link](#)] (Jan - Feb)
 - Scholarship: R\$ 1200 per month
 - Deadline: Nov
 - Requirements
 - Undergrad/Grad transcript
 - Recommendation letter
- Getulio Vargas Foundation, Brazil [[link](#)] (Jan-Feb)
 - Scholarship: R\$3500 per month
 - Deadline: Dec
 - Requirements
 - CV
 - Undergrad Transcripts



Nils Murrugarra



Opportunities for Women

- Women in Machine Learning [[link](#)]
 - Travel grants for NeurIPS, ICML, and ICLR
 - Accepted article to workshop
 - Any nationality, and at least undergrad student
- Women in Computer Vision [[link](#)]
 - Travel grants for CVPR, ICCV, and EECV
 - Accepted article to workshop
 - Any nationality, and at least undergrad student
- Grace Hooper Scholarships [[link](#)]
 - Travel grants to attend Grace Hooper Conference [[link](#)]
 - Any nationality
 - At least undergrad student



Leissi Castañeda



Preparation Resources

Curriculum Vitae

- University of Pittsburgh - Resume Building [[link](#)]
- University of Pittsburgh - Writing a Curriculum Vitae [[link](#)]



Motivation Letter

- How to write a motivation letter [[link](#)]
- Practical guide: how to write an effective motivation letter [[link](#)]
- Essential tips for writing a great motivation letter [[link](#)]

Preparation Resources: Motivation letter

- **Understand the Purpose:** Clearly understand the purpose of the motivation letter. Tailor your letter accordingly.
- **Research the Recipient:** Know your audience. Research the organization, institution, or company to understand their values, goals, and what they are looking for in a candidate.
- **Structure:** Follow a clear and concise structure. Typically, a motivation letter includes an introduction, body paragraphs, and a conclusion.
- **Be Specific:** Provide concrete examples of your achievements, experiences, and skills. Avoid generic statements.
- **Address the Selection Criteria:** If there are specific criteria mentioned in the application, make sure to address each one in your letter.
- **Show Enthusiasm:** Express genuine enthusiasm for the opportunity. Explain why you are interested and how it aligns with your career goals.
- **Professional Tone:** Maintain a professional and formal tone. Avoid using slang or overly casual language.
- **Proofread:** Check for grammatical errors, spelling mistakes, and ensure proper formatting. A well-proofread letter reflects attention to detail.



Source: ChatGPT

Other Opportunities

- Google Conference Scholarships North America (USA, Canada, and México) [[link](#)]
 - CV
 - Essay: What impact would attending the conference have on your career path?
- Richard Tapia Scholarships [[link](#)] (Apr)
 - Deadline: Feb 26
 - Tapia Conference Diversity in Computing



General Opportunities

- Course Online Free Courses
 - Financial aid [[link](#)]
- GPU LatinX in AI Cluster [[link](#)]
 - Access to GDX GPU server
 - 4-page proposal
- Google Outreach [[link](#)]
 - Faculty and students
- Funding
 - GoogleExploreCSR [[link](#)] (June)
 - Create your own program
 - Amount: \$18K (1st year), \$15K (2nd year), and \$10K (3rd year)
 - KhipuX [[link](#)] (Nov)
 - Event organization
 - Amount: \$2000



Other GoogleExploreCSR LatinX Opportunities

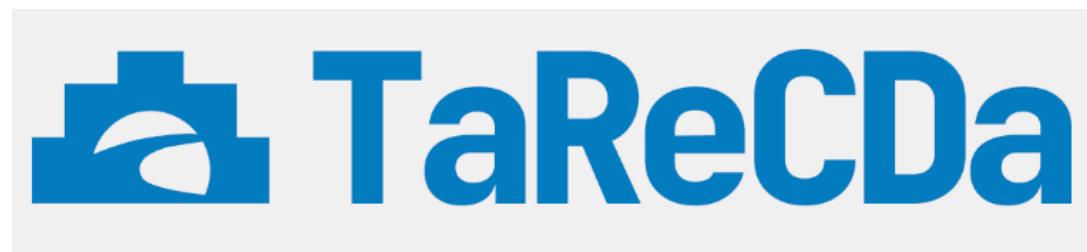
- Tarecda (Taller Regional de Ciencia de Datos y sus aplicaciones) [[link](#)]
 - Participant universities:
 - Perú: University of Piura, National University of the Center, and National University of Trujillo
 - Ecuador: Technical University of Machala, and University of Loja
 - Benefits:
 - Online trainings
 - Onsite workshop with travel grants
 - Mentored research projects
- Latam Undergrad/Master Research Internship [[link](#)]



José Barba

Angely
Mendez

Ciara
Mendez



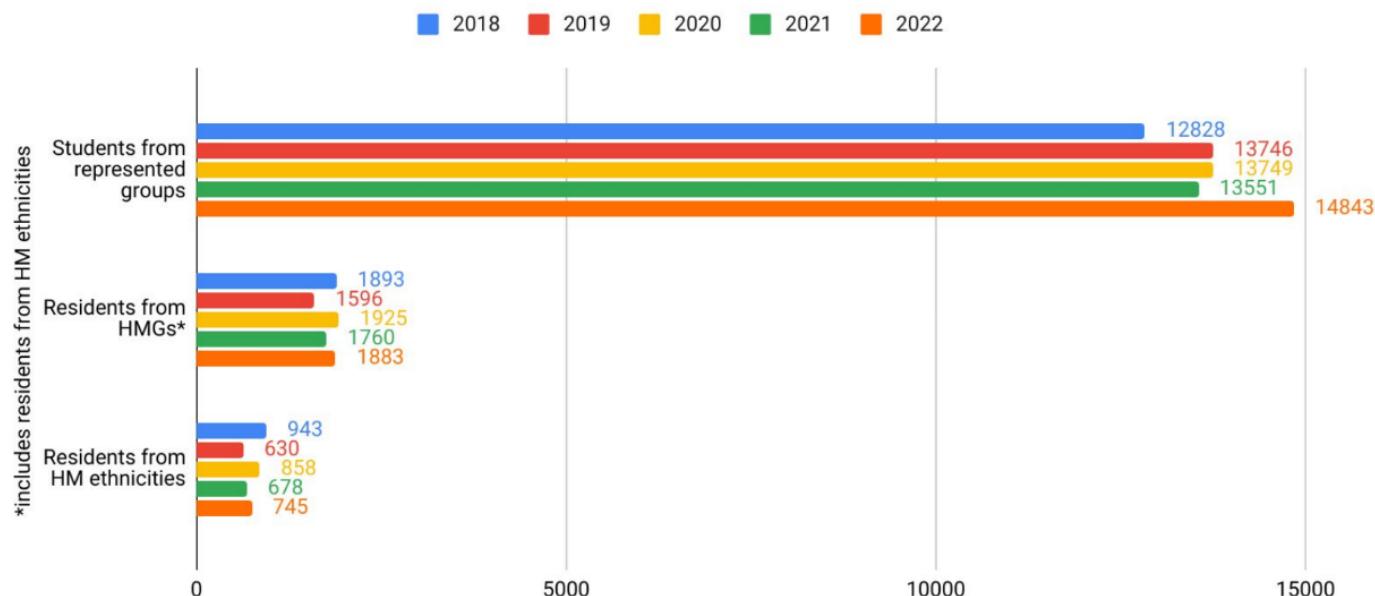
Students Stories

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Students Stories

PhD Enrollments (US/CA)



Bachelor Student: Keyssi Echevarria



Tarecda
(Dec 2022)



Reunión Internacional de Inteligencia
Artificial y sus Aplicaciones - [RIIAA 2024](#)
(Feb 2024)



Research
Thesis
Undergrad
Project
(Sep 2023)



Bachelor Student: Nilton Rojas

ICCV23

PARIS

Workshop
Article [LXCV](#)
[@ ICCV](#)
(Oct 2023)



Research
Thesis
Undergrad
Project
(May 2023)



[Undergrad](#)
[Consortium @](#)
[AAAI](#)
(Feb 2024)



Association for the
Advancement of Artificial Intelligence

Master: Jeffri Murrugarra



Undergrad Exchange
Student @ ICMC USP
(Jul 2018)



ICML

International Conference
On Machine Learning



Workshop Article
[LXAI @ ICML](#)
(Jun 2019)



Image Processing
Undergrad Project
(Sep 2018)



Coursera Courses
[Financial aid](#)
(Jul 2019)



Master: Jeffri Murrugarra



Master Student @
UFRGS, Brazil
(Mar 2020)



Research Thesis
Undergrad Project
(Jul 2021)



[Workshop Articles](#)
@ CVPR
(Jun 2022)



[EMNLP Article \[pdf\]](#)
(Dec 2022)



Master: Jeffri Murrugarra



[Khipu-AI](#) Summer
School
(Mar 2023)



PhD Applications
to USA
(Dec 2023)

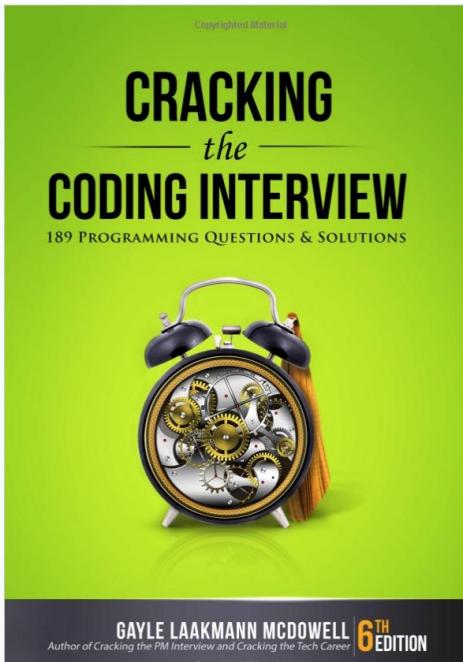


Workshop Article
[LXCV @ ICCV](#)
(Oct 2023)



ICCV23
PARIS

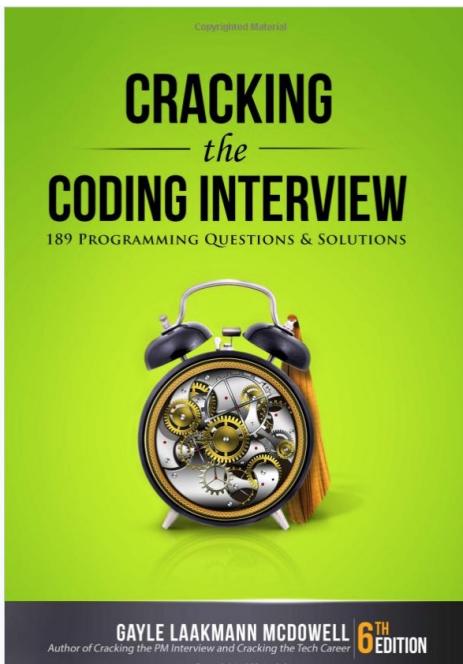
Internships: Interview Training



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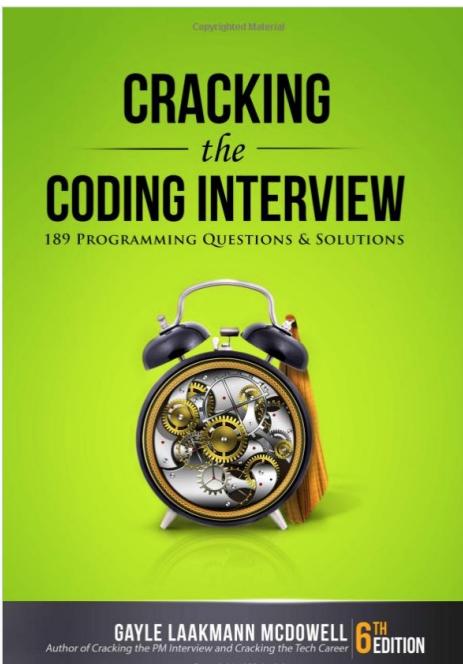
Internships: Interview Training



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Internships: Interview Training



[Link](#)

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Internships: Interview Training



Category - All

- [System Design New](#)
- [OO Design](#)
- [Operating System](#)
- [Algorithms](#)
- [Database](#)
- [Shell](#)

172/800 Solved - Easy 114 Medium 58 Hard 0

Pick One

Search question titles, description or IDs

Difficulty ▾ Status ▾ Lists ▾ Tags ▾

#	Title	Solution	Acceptance	Difficulty	Frequency	🔒
771	Jewels and Stones		81.9%	Easy		
807	Max Increase to Keep City Skyline		81.7%	Medium		
832	Flipping an Image New		79.0%	Easy		
✓ 760	Find Anagram Mappings 🔒		75.9%	Easy		
804	Unique Morse Code Words		73.9%	Easy		
535	Encode and Decode TinyURL		73.7%	Medium		
595	Big Countries		71.6%	Easy		
544	Output Contest Matches 🔒		71.2%	Medium		
814	Binary Tree Pruning		70.3%	Medium		
✓ 654	Maximum Binary Tree		70.2%	Medium		

Your Progress

Session: Anonymous Session

616 Todo 172 / 800 Solved 12 Attempted

Exp. 69 69 🎯

Top Hits

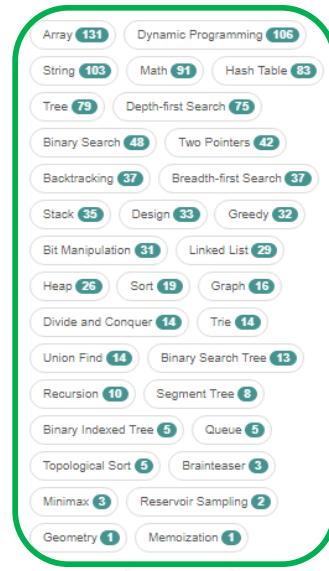
- ☰ Top 100 Liked Questions
- ☰ Top Amazon Questions 🔒
- ☰ Top Facebook Questions 🔒
- ☰ Top Google Questions 🔒
- ☰ Top Interview Questions
- ☰ Top LinkedIn Questions 🔒

Internships: Interview Training



	657 Judge Route Circle		68.5%	Easy
797	All Paths From Source to Target		68.5%	Medium
	617 Merge Two Binary Trees		67.6%	Easy
627	Swap Salary		67.0%	Easy
728	Self Dividing Numbers		66.7%	Easy
	561 Array Partition I		66.4%	Easy
763	Partition Labels		64.4%	Medium
806	Number of Lines To Write String		64.0%	Easy
339	Nested List Weight Sum		64.0%	Easy
811	Subdomain Visit Count		63.9%	Easy
537	Complex Number Multiplication		63.8%	Medium
419	Battleships in a Board		63.2%	Medium
821	Shortest Distance to a Character		63.0%	Easy
	338 Counting Bits		62.4%	Medium
584	Find Customer Referee		62.0%	Easy
366	Find Leaves of Binary Tree		61.2%	Medium
	476 Number Complement		61.2%	Easy
359	Logger Rate Limiter		60.9%	Easy
346	Moving Average from Data Stream		60.5%	Easy
586	Customer Placing the Largest Number of Orders		60.5%	Easy
	344 Reverse String		60.5%	Easy

Topics



Show More

Companies



Internships: Interview Training



acm International Collegiate Programming Contest

<https://icpc.baylor.edu/>



<https://www.ieee.org/membership/students/competitions/xtreme/>



<http://codeforces.com/>



<https://icpcarchive.ecs.baylor.edu/>

Thanks!

Increasing our visibility: Opportunities in
Computer Science

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