

SUMMER INTERNSHIPS

Jennifer Hill, Capital One

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Jennifer Hill, Ph.D.

VP, Data Science

Capital One, US Card



Summer Internships

- Credit risk
- Fraud detection
- Digital experience
- Marketing & Brand strategies
- Investments

What we do

- Human-to-machine interactions
- Speech/Image/Natural Language
- Predictive & detective
- Data visualization



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A valuable venture for career development

Valuable work

- Address business problem with intelligent software solution
- Develop and test products and measure results
- Work with enormous data
- Present to executives

Development Support

- Supported by mentors, manager and teammates
- Training, networking and fun events
- Interaction with business leaders
- Experience culture before deeper commitment



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Deb Agarwal

Lawrence Berkeley National Laboratory, DOE
Data Science and Technology Department Head



My Summer Internships

- IBM, Tucson, AZ
- General Motors, Milford Proving Ground
- IBM, Austin, TX
- Berkeley Lab

What I do

- Data science in support of earth science projects
- Data science research



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A practical value to help start your career

- Experience for resume (+ papers)
- Try out potential career alternatives
 - Industry
 - National Laboratory
 - Academia
- Live in a different area
- Experience different work environments – research, product, etc
- Remember why you are in school



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Starting the process of finding an internship

- Intern hiring windows – November – February
- Professors' and advisors' contacts
- Apply to large national programs
- Career center
- Network!
 - Conferences
 - Career fairs
 - Professional meet-ups



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Preparing your application materials and yourself

- Get your web page up-to-date – highlight experience
 - link in a copy of your CV (get critiques)
- Create a linkedIn page
- Do mock interviews
- Identify at least three references
- Develop and practice an “elevator pitch”
- If on a visa, know what paperwork is required



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Exercise

Elevator Pitches

- Break into groups of 4-5 and have each person give their 60 second elevator pitch
- Spend time discussing techniques that were particularly effective



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Example: CapitalOne hiring process

- Technical screen
- Coding challenge
- Business case
- Simulation
- Job fit



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Putting Your Best Foot Forward in the Interview Process

Before the Interview

- Ask about the format of the interview
- Research the company/group/personnel

The Interview

- Show motivation and enthusiasm
- Ask clarifying questions
- Ask about potential projects
- Talk through as you answer technical/complicated questions
- Be ready to ask a few questions of each interviewer
- Ask about their decision timeline

After the interview

- Send thank you notes to the folks you met
- Follow-up in ~ 1 month



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Interview Exercise

Mock Interviews

- Pair up and one person play the interviewer and the other the interviewee. Then switch roles.
- Format
 - 5 min questions
 - 3 min feedback



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Now That You Got the Job, What's Next?

Before the Start Date

- Ask what to prepare
- Agree start/end + any necessary time off

On the Job

- Do a good job
- Understand expectations of deliverables
- Keep your supervisor informed of your progress
- Interact with the people around you (learn the culture)
- Attend talks and seminars
- Work independently but don't be afraid to ask for help
- Have fun



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After the Job, What's Next?

- Keep in touch with host, recruiters, etc
- Ask about the hiring process for full time
- Ask about the potential for returning next year
- Develop a strong recommendation
- Write a paper about the work



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