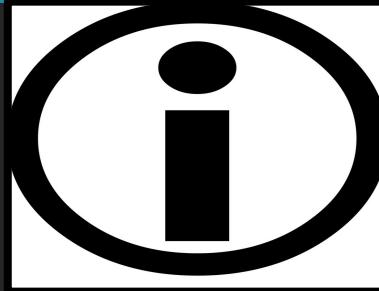


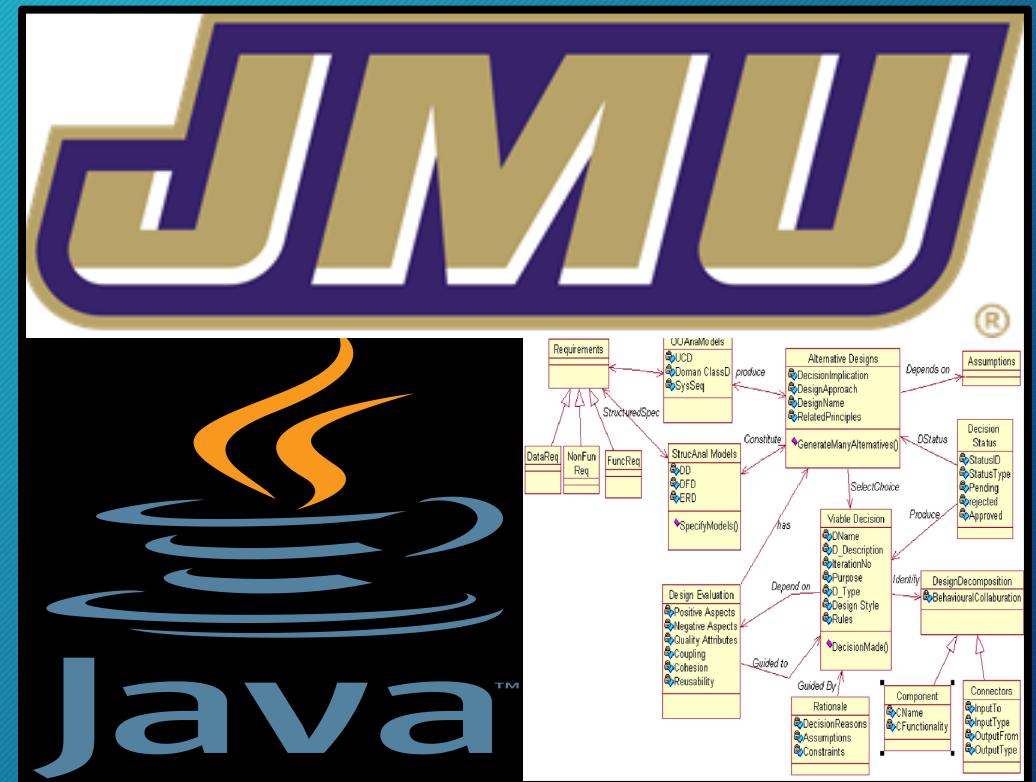
My Internship Experience In Software Development

By: Alexander Castro

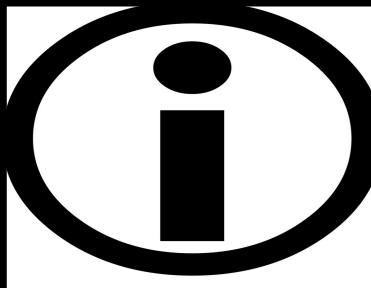
My Background



- **Major:** Computer Science
- **School:** James Madison University
- **Year:** Rising Junior
- **Background Knowledge:**
 - Java
 - Systems
 - Application Design
 - Software Engineering



Day to Day



1. *Frontend Development with JavaScript*
2. *Backend Development with Java*
3. *Database Management with Oracle SQL Developer*
4. *Development done in Eclipse (IDE)*
5. *Bugs and Backlogs for Task management*

My Projects



My Projects



→ *Password Reset*

→ *Direct Deposit*

→ *Wage Offer Letter*



Password Reset



What did I contribute to password reset?

- I added a new tab system for the view dialog on the page, allowing a manager to view and edit third party information
- I added several new fields to the LDAP viewport to provide a manager more information about any given employee

Password Management



| Emp No | Name | LDAP Name | Pa |
|--------|------------------|-----------------|-------|
| 469 | BYRD, JACQUELINE | jacqueline.bryd | Reset |
| 106 | BYRUM, KELLEY | kelley.bryum | Reset |
| 13437 | CLARK, BARBARA | barbara.clark | Reset |
| 22736 | EAVES, MATTHEW | matthew.eaves | Reset |

Password Management

BYRD, JACQUELINE - Emp No:469 - Division:705

| | |
|--|------------------|
| LDAP Info | Third Party Info |
| LDAP Type: ABC AD | |
| Update Work Email: | |
| Primary (Home) Email: 3454 | |
| Synch From COV to ABC AD: <input checked="" type="checkbox"/> | |
| Force Password Synch from COV to ABC AD: <input checked="" type="checkbox"/> | |
| Last Password Change: 3/28/2017 | |
| Last Login Success: 8/15/2016 | |
| Enabled: <input checked="" type="checkbox"/> | |
| Locked: <input checked="" type="checkbox"/> | |
| <input type="button" value="Save"/> <input type="button" value="Close"/> | |

Editable Password information is visible and available for the Admin to change.

Finalized Password Reset



BYRD, JACQUELINE - Emp No:469 - Division:705

| LDAP Info | Third Party Info | | | | | | | | | | | | |
|---|--------------------|----------|----------------------|---------------------------------|----------------------|--------------------|------------|------|-----|---|--|---------------------------------|---|
| Third Party Information <table border="1"> <thead> <tr> <th>Account</th> <th>3rd Party Login ID</th> <th>Login ID</th> <th>Account 3rd Party ID</th> <th>3rd Party Login ID</th> <th>FMS Run ID</th> </tr> </thead> <tbody> <tr> <td>4475</td> <td>469</td> <td>1</td> <td></td> <td>jacqueline.bryd@virginiaabc.com</td> <td>1</td> </tr> </tbody> </table> | | Account | 3rd Party Login ID | Login ID | Account 3rd Party ID | 3rd Party Login ID | FMS Run ID | 4475 | 469 | 1 | | jacqueline.bryd@virginiaabc.com | 1 |
| Account | 3rd Party Login ID | Login ID | Account 3rd Party ID | 3rd Party Login ID | FMS Run ID | | | | | | | | |
| 4475 | 469 | 1 | | jacqueline.bryd@virginiaabc.com | 1 | | | | | | | | |
| <input type="button" value="Export Excel"/> Page 1 of 1 <input type="button" value="View 1 - 1 of 1"/> | | | | | | | | | | | | | |
| <input type="button" value="Save"/> <input type="button" value="Close"/> | | | | | | | | | | | | | |

| LDAP Info | Third Party Info | | |
|---|------------------|---------|----------------------------------|
| Third Party Information <table border="1"> <thead> <tr> <th>Account</th> </tr> </thead> <tbody> <tr> <td>Account 3rd Party Login ID: 4475</td> </tr> </tbody> </table> | | Account | Account 3rd Party Login ID: 4475 |
| Account | | | |
| Account 3rd Party Login ID: 4475 | | | |
| 3rd Party Login ID: jacqueline.bryd@virginiaabc.com FMS Run ID: 1 <input type="checkbox"/> Update FMS? | | | |
| <input type="button" value="Save"/> <input type="button" value="Close"/> | | | |

Direct Deposit



What did I contribute to Direct Deposit?

- *I took over the project with most of the UI completed and styling finished.*
- *I contributed a majority of the backend functionality including:*
- The project consisted of two pages:
 - Employee (Employee inputs all Direct Deposit Information)
 - Admin (Allows Admin to acknowledge and approve Direct Deposit Requests)

Employee Information

Employee: HALL, JENNIFER

Status

YOU MUST PRESS THE SIGN BUTTON TO SUBMIT ANY CHANGES TO PAYROLL.
DIRECT DEPOSITS SHOULD BEGIN IN 1-2 PAY PERIODS.

Modify Accounts

Information

All newly hired employees must enroll in the direct deposit pay program.
Prior to completing this form, please review the [Distribution of Paychecks, Policy No. 01](#).

§4-601.e.2 of the Appropriation Act (Chapter 879, 2008 Session) authorizes the Comptroller to mandate payment of wages or salaries to state employees via electronic payments. All newly hired or rehired employees to the Commonwealth must receive their net pay via an electronic deposit with a hire date of August 1, 2008, or after.

Account 1 Information

| | |
|--------------------|-------------|
| Bank:* | BB&T |
| Branch: | Richmond |
| Routing #: | 123456789 |
| Re-type Routing #: | |
| Account #: | 11123423455 |
| Re-type Account #: | |

Fixed Amount (leave 0 for net):*

Account Type: Checking Savings Way2Go Card

[Change View for Way2Go Card](#)

[Cancel](#) [Add Account](#)

Approvals

| Role | Name | Date | Posn | Sign | Status |
|---------|---|------------|-------|---|--------------|
| EMP | HALL, JENNIFER - HR Technical Support Manager | 07/24/2019 | 01091 | Edit | Approved |
| Payroll | | | | Sign Decline Request | Not Approved |

[Print Direct Deposit](#)

Finalized Direct Deposit: Employee Page



- Key restrictions on all of the fields
- Validation on user Input
- Saving of the Direct Deposit information
- Sign, Un-sign, and Decline approval functionality
- Encryption and Decryption on account numbers
- Multi-account support

Direct Deposit Admin

Search Options (click to expand/collapse)

Employee: Click to search by Employee

State ID Number:

Employee Sign Date: to

Status: Payroll Not Acknowledged
Payroll Not Acknowledged
Payroll Acknowledged
All Payroll Requests
Unsigned Employee Requests

Direct Deposit Requests

| Select All | Actions | Employee Name | State ID Number | Div | Hire Date | Employee Sign Date | Payroll Status |
|--------------------------|---------|-------------------|---------------------------|-----|------------|--------------------|----------------|
| <input type="checkbox"/> | | PHILLIPS,CHRISTEN | 001084190 | 704 | 1/10/2006 | 7/2/2019 | N |
| <input type="checkbox"/> | | HALL,JENNIFER | 003595163 | 711 | 2/25/2005 | 7/24/2019 | N |
| <input type="checkbox"/> | | GOUGH,NANCY | 008678311 | 786 | 7/25/2001 | 7/24/2019 | N |
| <input type="checkbox"/> | | LAKE,JAMES | 007095395 | 786 | 11/19/2001 | 7/24/2019 | N |

Page of 1 View 1 - 4 of 4

Direct Deposit Admin

Search Options (click to expand/collapse)

Direct Deposit Accounts

Employee Information

Employee: HALL, JENNIFER

Accounts

| Account | Bank | Branch | Routing Number | Account Number | Fixed Amount | Type |
|---------|------|----------|----------------|----------------|--------------|------|
| 1 | BB&T | Richmond | 123456789 | 11123423455 | 0 | S |

Finalized Direct Deposit: Admin Page



- Added to the SQL behind main table
- Added search functionality to the table
- Linked each record to that given employee's Direct Deposit Information page (Employee Page)
- Allow the Admin to Acknowledge any valid Direct Deposit request. (Included Validation)

Wage Offer Letter



What did I contribute to Wage Offer Letter?

- I took this project over from another intern due to its increase in priority.
- I contributed most of the backend work for this project.
- The project consisted of Three pages:
 - Recruitment Applicants (Manager can view all current applicants, filtered by position)
 - Track My Applications (Screen for the applicant to view all current applications)
 - Wage Offer Letter Page (Page that displays the Wage Offer Letter itself)

Filter Print Hire Packet Excel Screening Sheet

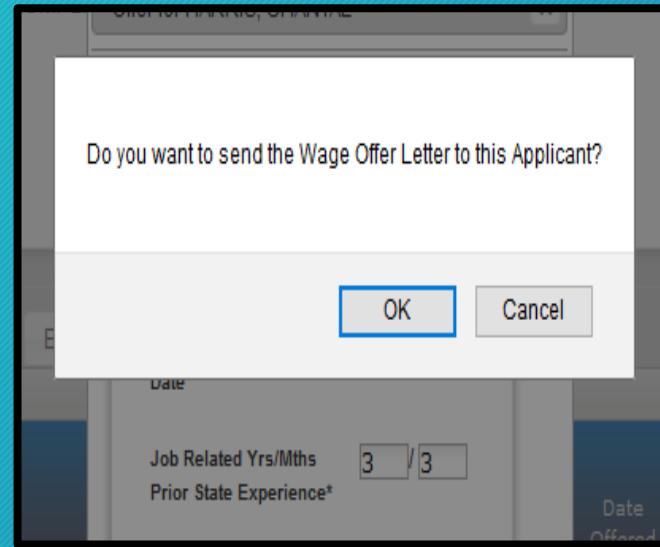
Applicants

| Action | Name | Rehire | Status | CHRR | Apply Date | Locations |
|--------|------------------|--------|---|------------------------------------|------------|--|
| | DEMATTEO, CALVIN | | Offer Accepted | CHRR Approved HALL, JENNIFER | 08/09/16 | 1 Divisions selected. 1 Locations Selected. View Locations |
| | HARRIS, CHANTAL | | Offered | CHRR Approved HALL, JENNIFER | 08/02/16 | 1 Divisions selected. 1 Locations Selected. View Locations |
| | HARRIS, CHANTAL | | Offered | CHRR Approved HALL, JENNIFER | 08/02/16 | 1 Divisions selected. 1 Locations Selected. View Locations |
| | CRAVEN, LINDA | | Request Applicant Entry | CHRR Approved HALL, JENNIFER | 08/02/16 | 1 Divisions selected. 1 Locations Selected. View Locations |
| | CHRISTINE, YIFEN | | Interviewing | Not Requested HALL, JENNIFER | 08/03/16 | 1 Divisions selected. 1 Locations Selected. View Locations |
| | HARRIS, NATARSHA | | Screening | Not Requested HALL, JENNIFER | 08/10/16 | 1 Divisions selected. 1 Locations Selected. View Locations |
| | HUDSON, GITA | | Screening | Not Requested | 07/27/16 | 1 Divisions selected. |

Offer for HARRIS, CHANTAL

| | |
|--|----------|
| Offer Salary* | 1221212 |
| Offer Extended Date* | 10/11/18 |
| Estimated Start Date | |
| Candidate Accepted Date | 10/19/18 |
| Job Related Yrs/Mths Prior State Experience* | 3 / 3 |
| Job Related Yrs/Mths Prior Non State Experience* | 3 / 3 |
| Experience Base Date* | |
| Calculated Total Experience | |

Save Close



Finalized Wage Offer Letter: Employee Connect



- Automated email functionality
- On click email functionality
- Added columns to table
- Added field for additional Data Tracking
- Updating status of application when Offer Letter is sent



Hari Krosuri
2901 Hickory Ann Dr
Glen allen, VA 23059

Jul 18, 2019

We are pleased that you accepted our offer of employment at the Senior .Net Developer position, with Position Number 00223, effective 08-10-2019. Your pay will be 35000. Your manager will conduct an onboarding orientation on your first day of employment.

This offer is contingent upon your meeting the requirements of employment, which include satisfactory reference checks and a background check. In addition, you will be required to complete online training modules, which include an acknowledgement on reading the Code of Ethics Policy and Sexual Harassment Prevention Policy.

In order to comply with the requirements of the Department of Homeland Security, on your first day of employment, you will be required to complete an Employment Eligibility Verification Form I-9 and will need to bring proof of eligibility to work in the United States (please refer to the List of Acceptable Documents herein attached). Additionally, all new employees are required to receive their pay through the direct deposit program and in order to initiate participation, please bring your routing and account numbers from your financial institution(s). Our payroll system also requires you to provide a personal email address as well.

The Internal Revenue Code section 3402 states that the employer has an obligation to request Form W-4 from a new employee. On or before the first day of employment the Authority must present the employee with a W-4 form. All employees are required to present a signed social security card when completing the W-4 form. The hiring manager will ask to see the social security card to verify the name written on the W-4 is an exact match to the name on the social security card.

This offer is for at-will employment and is not to be interpreted as an employment agreement or any other guarantee of employment or duties. Please be advised that the Virginia ABC will comply with the terms and conditions of any enforceable restrictive covenant/non-compete provisions and/or other contractual obligations, which would limit or prevent your accepting employment with Virginia ABC. We understand that you are not subject to any such provisions and/or contractual obligations.

We look forward to you joining Virginia ABC. To confirm acceptance of this offer, please sign this letter and return it to me immediately. A copy is enclosed for your personal files. If you need further assistance or have any questions, please do not hesitate to contact your supervisor, Zemene Chasse, at (804)213-4435.

Sincerely,
Walt Rock, Regional Manager

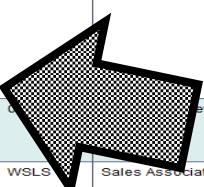
I certify that I accept this offer.*

Submit Offer Letter

My Applications

- To make updates to applications prior to the closing date, you must "Withdraw" your application, update your profile and reapply to the position.
- Changes to an application cannot be made after the closing date.

| Position | Description | Interview | Applied | Closing Date | Status |
|-------------------|-------------|------------------------------|-------------|--------------|-------------------|
| View | 00937 | Forklift Operator | 16-Apr-2019 | 16-Apr-2019 | Open Until Filled |
| Withdraw | | | | | Accepted |
| I-9 Section 1 | | | | | |
| View | 00256 | Senior Configuration Analyst | 16-Apr-2019 | 16-Apr-2019 | Open Until Filled |
| Withdraw | | | | | Accepted |
| I-9 Section 1 | | | | | |
| View | WSLS | Sales Associate State Wide | | 26-Sep-2018 | Open Until Filled |
| Withdraw | | | | | Pending |
| Edit Locations | | | | | |
| I-9 Section 1 | | | | | |
| Wage Offer Letter | | | | | |
| View | 00223 | Senior .Net Developer | | 19-Sep-2018 | Open Until Filled |
| Withdraw | | | | | Accepted |
| I-9 Section 1 | | | | | |
| View | WSLS | Sales Associate State Wide | | 08-Sep-2017 | Open Until Filled |
| Withdraw | | | | | Accepted |
| Edit Locations | | | | | |
| CHR | | | | | |
| I-9 Section 1 | | | | | |
| View | 70016 | Satya Recruitment Test Case | 20-May-2019 | 20-May-2019 | Open Until Filled |
| I-9 Section 1 | | | | | Expired |



Finalized Wage Offer Letter: Apply Online



→ Updating and retrieving data for button filtering

→ Inserting a new static resource (Header Image)

→ Template merging with parameters

→ Adding a redirect after letter is signed

→ PDF Generation

→ PDF Merging

DO NOT REPLY TO THIS SYSTEM GENERATED EMAIL FROM VIRGINIA ABC.

%app_name% wage offer letter has been electronically sent for the following position:

%working_title%, Position #%posn_no% %location_desc%.

Hiring Range: %min_salary% - %max_salary%

Closing Date: %closing_date%

This email is sent to inform you that your electronic Wage Offer Letter is available for approval.

To Accept or Decline this offer, complete the following:

1. Using the Virginia ABC [Jobs](#) recruitment system, log in with user name (**%login_id%**) and password used to apply for this application.
2. Select Track My Application from the menu and follow instructions provided.
3. Select Wage Offer Letter tab
4. Select Accept or Decline Offer button

For questions about the position to which you have applied, contact the Hiring Manager or:

%name_supervisor%

Virginia Department of Alcoholic Beverage Control

%supvEmail%

%supvPhone%

Finalized Wage Offer Letter: Automated Email

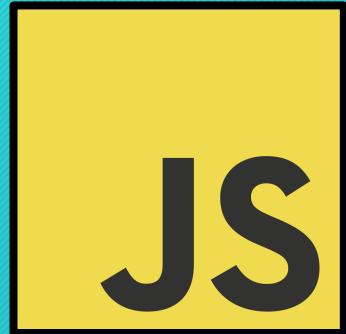


- *Automated emailing*
- *On click emailing*
- *Parameter Driven*
- *On Demand regeneration and Sending*

In Conclusion



Tools I learned to Use



- *JavaScript*
- *Apache Maven*
- *Oracle SQL*
- *Oracle WebLogic*
- *Struts Framework*

Challenges I faced



- *Coding Language Barrier* (Backend strongly typed --> Frontend script-type)
- *Project / Time management* (Always Busy)
- *Completely New Framework* (Maven Project, Struts)
- *Learning the Database* (Tables, Keys, linking)
- *New and Difficult Concepts* (PDF Generation, Encryption, Automated Emailing, etc.)

Thank You

- *Andrew Mcenhimer (PM)*
- *Noel Dell (BA)*
- *Hari Krosuri (Developer)*
- *Donovan Pierce (Intern / Developer)*
- *Andrew Pomeroy (Intern / BA)*
- *Theresa Beck (Management)*
- *John Carvalho (Management)*



*Thank
you!*